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PERSONAL.

Mr. J. Herbert Campbell, of Cohoes, N. Y., has accepted a position as Civil Engineer in Philadelphia, Pa.

Mr. C. A. Sias has been elected City Engineer of Galveston, Tex., to succeed Capt. R. H. Peek, deceased.

Lieut.-Commander A. V. Zane has been ordered to duty on the "Alabama" in charge of the Engineering Department.

Mr. Arthur Warren, Vice-President of the Westinghouse Electric & Mfg. Co., has returned to New York from Europe.

Mr. Walter Le Compte Boyer, a Civil Engineer of New York city, was married Sept. 19, to Miss May Hall, of New York city.

Mr. R. R. King, Treasurer of the Greensboro Water Supply Co., of Greensboro, N. C., has been appointed receiver of that company.

Mr. J. Matsumato, a director of the Sanyo R. R. of Osaka, Japan, is now in Boston, Mass., investigating certain railway appliances.

Mr. A. M. Evans, Resident State Engineer, of Little Falls, N. Y., has been transferred to Herkimer, and will establish his home there.

Major Chas. A. Vernon has been detailed as Professor of Military Science and Tactics at the Michigan Agricultural College, at Lansing, Mich.

Mr. Henry G. Issertel, Electrical Engineer, has been engaged to represent the Sprague Electric Co., with temporary office in New York city.

Mr. Harry Clifford Van Emburgh, a Civil Engineer, of Plainfield, N. J., was married Oct. 3 to Miss Lillian Annabelle Kline, of Elizabeth, N. J.

Mr. John J. Kirkpatrick, of Holyoke, Mass., has formed a partnership with Mr. E. A. Ellsworth and will practice in the profession in Holyoke, Mass.

Mr. A. B. Shepard, Manager of the Cleveland Branch of the General Electric Co., was married Sept. 18 to Miss Gertrude Robbins, of New York city.

Mr. H. Fernstrom, Chief Engineer of the Chicago Great Western Ry., has resigned to accept a similar position with the St. Joseph & Grand Island Ry.

Mr. S. P. Munson has been appointed Supervisor of Bridges and Building of the Peoria Division of the Illinois Central R. R., with office at Mattoon, Ill.

Mr. E. D. Lumsden has been appointed to succeed Mr. J. T. Stone, deceased, as Chief Engineer of the South Georgia R. R., with headquarters at Quitman, Ga.

Mr. L. Bush has been appointed Principal Assistant Engineer of the Delaware, Lackawanna & Western R. R., with office at Hoboken, N. J., vice Mr. L. H. Evans.

Mr. Norton Prentiss Otis, President of the Otis Elevator Co., of New York city, has been nominated for Congress in the 16th Congressional District by the Republican Party.

Mr. J. E. May has been appointed Superintendent of Car Service of the Chicago & Alton Ry., with office at Bloomington, Ill., vice Mr. F. W. Bridges, assigned to other duties.

Mr. H. R. Bostwick, of San Francisco, Cal., who with Mr. H. Colibran recently constructed an electric railway at Seoul for the Emperor of Corea, has returned to this country.

Mr. Horatio A. Foster, M. Am. Inst. E. E., of Buffalo, N. Y., has been appointed Consulting Engineer of the Railways Co. General of Philadelphia, Pa., with office in that city.

Mr. John W. Crisfield, Civil Engineer, Superintendent of Construction for Jones & Laughlins line, of Pittsburg, Pa., was married Sept. 26 to Miss Laura Donalson Drake, of Pittsburg.

Mr. James M. Herbert has been appointed Division Superintendent of the Missouri Pacific Ry. System, with headquarters at Osawatomie, Kan., vice Mr. S. T. Shankland, resigned.

Mr. Elton D. Walker, M. Am. Soc. C. E., for several years Assistant Professor of Civil Engineering in Union College, has been appointed Assistant Professor of Civil Engineering in the Pennsylvania State College.

Capt. William Crozier, Ordnance Department, is ordered to inspect the ordnance material of all the Pacific Coast fortifications, and then to proceed to New York city for duty at the New York Arsenal and Sandy Hook proving grounds.

Mr. Martyn Wells, of Calcutta, India, Resident Manager of the Calcutta Tramways Co., who has been in this country studying the electric railway systems, sailed on Oct. 3 for London.

Major Frank Heath, Ordnance Department, is ordered from Frankford Arsenal, Philadelphia, to the Sandy Hook proving grounds on business pertaining to the manufacture of cannon primers.

Mr. Tanabi, of the firm of Sumitomo & Co., extensive mine owners and importers, of Osaka, Japan, is in this country for the purpose of inspecting improved mining machinery and equipment.

Mr. A. W. Rucker, Professor of Physics in the Royal College of Science, at New Kensington, England, has been elected to preside at the next meeting of the British Association for the Advancement of Science.

Mr. Ralph D. Mershon, M. Am. Inst. E. E., has accepted a position with the Montreal Street Ry. and the Chambly Manufacturing Co., of Montreal, in connection with the long-distance transmission of electric power.

Mr. Alfred K. Warren, Assoc. M. Am. Inst. E. E., has resigned as Vice-President and General Manager of the American Electrical & Maintenance Co., and will carry on a consulting practice, with office in New York city.

Mr. Hartley Gisborne, Hon. Secretary of the Institution of Electrical Engineers of England, has resigned as Electrical Engineer for the Crow's Nest Pass Coal Co., to accept a position with the Wellington Colliery Co., Vancouver Island, B. C.

Mr. C. A. Beach, Superintendent of the Atlantic Division of the Philadelphia & Reading Ry., has been transferred to the Philadelphia Division. Mr. A. G. McCausland, Superintendent of the Wilmington & Columbia Division is transferred to the Atlantic Division.

Mr. Alfred D. Flinn, Assoc. M. Am. Soc. C. E., has been appointed Lecturer on Water Supply and Sanitary Engineering at the Lawrence Scientific School, vice Mr. Geo. S. Rice, M. Am. Soc. C. E., deputy Chief Engineer of the New York Rapid Transit Commission.

Mr. E. M. Jackson, Superintendent of Construction and Maintenance for the Central Union Telephone Co., of Chicago, has been obliged to discontinue his connection with the Central Union Telephone Co., temporarily, on account of ill-health, and has started on a trip to Honolulu.

Professor M. E. Cooley, of the University of Michigan, has been appointed Appraiser of Railroads for the State Board of Tax Commissioners of Michigan. He will employ a large force of assistants, as the work must be finished within a year. His offices are in the Majestic Building, Detroit, Mich.

Mr. Frank S. Stevens, M. Am. Soc. C. E., Division Engineer of the Philadelphia & Reading Ry., has been appointed to the Superintendency of the Reading and Lebanon Divisions, with headquarters at Reading, Pa., vice Mr. W. G. Besler, and is succeeded by Mr. J. E. Turk, with office at Reading.

Mr. Wallace C. Johnson, M. Am. Soc. C. E., who has been for the past 15 years Chief Engineer of the Niagara Falls Hydraulic Power & Mfg. Co., of Niagara Falls, N. Y., has been appointed Chief Engineer of the Shawinigan Water & Power Co., of Montreal, Que., with office at 1724 Notre Dame St., Montreal, Que. Mr. Johnson will retain a connection with the Niagara Falls company in the capacity of Consulting Engineer.

Mr. William S. Jones, formerly Superintendent of the Rome, Watertown & Ogdensburg R. R., at one time Superintendent of the Long Island R. R., and later of the South Carolina & Georgia R. R., has been appointed General Superintendent of the Rutland R. R., with headquarters at Rutland, Vt. The announcement of the appointment of Mr. Jones corrects the report previously circulated that Mr. E. G. Russell had been appointed to that office.

The following appointments have been made on the Plant System of Railways: Mr. W. H. Wright, Superintendent of the First Division, with office at Savannah, Ga.; Mr. George W. Haines, Superintendent of the Second Division, with office at Waycross, Ga.; Mr. D. F. Kirkland, Superintendent of the Third Division, with office at Thomasville, Ga.; Mr. S. S. Fitzsimmons, Superintendent of the Fourth Division, with office at Montgomery, Ala.; Mr. H. A. Ford, Superintendent of the Fifth Division, with office at Gainesville, Ga., and Mr. J. J. Purdon, Superintendent of the Sixth Division, with office at Stanford, Fla.

OBITUARY

Mr. James Sullivan, a Marine Engineer, died at Seattle, Wash., on Sept. 27.

Mr. David J. Pendleton, Surveyor of Clark County, and City Engineer of Winchester, Ky., died Oct. 1.

Mr. Jacob Herschler, a Civil Engineer, employed by the National Starch Works, of Buffalo, N. Y., was struck by a train and instantly killed, Oct. 5.

Mr. Olney Arnold, a Financier and Manufacturer, of Pawtucket, R. I., died Oct. 3. Mr. Arnold was born in 1822. He was State Railroad Commissioner of Rhode Island from 1851 to 1853.

Mr. John F. Allen, M. Am. Soc. M. E., the inventor of the Allen high-speed engine, the Allen valve, the Allen air compressor and various other mechanical appliances, died Oct. 4. Mr. Allen was born in England in 1829, and came to this country when 12 years of age. He learned the trade of engineer, but devoted his entire life to inventing. He was also associated with Mr. Chas. T. Porter in the invention of the Porter-Allen valve gear.

Mr. George Roberts Blanchard, formerly Commissioner of the Joint Traffic Association, died at his home, No. 1 Washington Square North, New York city, Oct. 8. Mr. Blanchard was born in Rochester, N. Y., in 1841, and entered upon his career in railroading in 1858. He was subsequently General Freight Agent of the Ohio & Mississippi R. R., the Central Ohio R. R., the Baltimore & Ohio R. R., and of the Erie R. R., and was later promoted to the Vice-Presidency of that company. In 1886 he was chosen a Commissioner of the Central Traffic Association and resigned in 1895 to become Commissioner of the Joint Traffic Association, holding that office until the dissolution of the organization in 1898. Since that time Mr. Blanchard has devoted himself to work as a railway expert. He was one of the highest authorities on railway rates in this country. Mr Blanchard was a director of the United States Express Co., the Standard Coupler Co. and the Safety Car Heating & Lighting Co., and was President of the American Mutoscope & Biograph Co.

ENGINEERING SOCIETIES.

COMING MEETINGS.

ST. LOUIS RAILWAY CLUB.
Oct. 12. Paper; "Railway Scrap," by J. A. Carney. Secy., E. A. Cheney, Union Station, St. Louis, Mo.

MONTANA SOCIETY OF ENGINEERS.
Oct. 13. Paper: "The Compression of Air," by E. C. Sickles. Secy., R. A. McArthur, Tuttle Block, Butte, Mont.

AMERICAN STREET RAILWAY ASSOCIATION.
Oct. 16 to 19. Annual meeting at Kansas City, Mo. Secy., T. C. Pennington, 2020 State St., Chicago, Ill.

AMERICAN INTERNATIONAL ASSOCIATION OF RAILROAD SUPERINTENDENTS OF BRIDGES AND BUILDINGS.
Oct. 16. Annual meeting at St. Louis, Mo. Secy., S. F. Patterson, Concord, N. H.

AMERICAN GAS LIGHT ASSOCIATION.
Oct. 17 to 19. Annual meeting at Denver, Colo. Secy., Alfred E. Forstall, 58 William St., New York city.

AMERICAN SOCIETY OF RAILROAD SUPERINTENDENTS.
Oct. 18. Annual meeting at New York city. Secy., C. A. Hammond, Asbury Park, N. J.

CHICAGO ELECTRICAL ASSOCIATION.
Oct. 19. Paper: "The Alternating Arc," by C. Wiler. Secy., Cloyd Marshall, 1610 Monon Bldg., Chicago, Ill.

AMERICAN PUBLIC HEALTH ASSOCIATION.
Oct. 22 to 27. Annual meeting at Indianapolis, Ind. Secy., Dr. C. O. Probst, Columbus, O.

AMERICAN RAILWAY ASSOCIATION.
Oct. 24. Annual meeting at Boston, Mass. Secy., W. F. Allen, 24 Park Place, New York city.

INTERNATIONAL ASSOCIATION FOR TESTING MATERIALS.
Oct. 25 to 27. Annual meeting of American section at New York city. Secy., Richard L. Humphrey, City Hall, Philadelphia, Pa.

RAILWAY SIGNALING CLUB.
Nov. 13. Annual meeting at St. Louis, Mo. Secy., C. O. Tilton, West Milwaukee, Wis.

ROADMASTERS' ASSOCIATION OF AMERICA.
Nov. 13. Annual meeting at Los Angeles, Cal. Secy., J. B. Dickson, Sterling, Ill.

DEUTSCHER TECHNIKER-VEREIN VON BALTIMORE.—At the annual election, held Oct. 4, the following officers were elected: President, Theo. Zwermann; Vice-President, Prof. Otto Fuchs; Corresponding Secretary, John Malberg; Recording Secretary, Hubert Krekel; Treasurer, Rich. C. Sandlass. John Malberg, Cor. Secy.

INTERNATIONAL RAILWAY CONGRESS.—The Congress voted at the recent Paris meeting to accept the invitation of the American Railways to hold its next meeting in Washington, D. C., during October, 1904. The previous sessions of the International Railway Congress have been as follows: Brussels, 1885; Milan, 1887; Paris, 1889; St. Petersburg, 1892; London, 1895; Paris, 1900.

AMERICAN SOCIETY OF CIVIL ENGINEERS.—The following is the list of nominees for the offices to be filled at the annual election, Jan. 16, 1901: For President, J. James R. Croes, New York city; For Vice-Presidents, Henry S. Haines, New York city, and Geo. H. Benzenberg, Milwaukee, Wis.; for Treasurer, Joseph M. Knap, New York city; for Directors, Josiah A. Briggs, New York city; George F. Swain, Boston, Mass.; Emil Kuichling, Rochester, N. Y.; Mordecai T. Endicott, Washington, D. C.; Frank C. Osborn, Cleveland, O.; Edward C. Carter, Chicago, Ill. Chas. Warren Hunt, Secy.

INTERNATIONAL ASSOCIATION OF FIRE ENGINEERS.—At the annual convention, held at Charleston, S. C., Oct. 2 to 5, a paper entitled "Should the Use of Ground Wires in Connection with Fire Alarm Telegraphs be Discontinued?" was presented by Mr. Morris W. Mead, Supt. of the Bureau of Electricity of Pittsburg, Pa. The author states that because of sneak currents from electric traction and lighting systems, it is not desirable to have a permanent ground connection at signal points, but that for convenience in testing or in case of an open circuit, a ground connection should be so arranged that it may be conveniently attached when necessary.

WESTERN SOCIETY OF ENGINEERS.—At the meeting on Oct. 3, Mr. J. W. Schaub presented a paper on "Proposed Specifications for Steel Railway Bridges," dealing particularly with the effects of impact and vibration, excessive vibration being often caused by defects in the design

or construction of the bridge. For deck plate girders, no top cover plates are to be used, but plates are to be riveted against the sides of the chords, thus avoiding boring out the ends of cross-ties to fit the rivet heads. The paper described the several special features of the complete specifications proposed. Written discussions were presented by Mr. Horace E. Horton and Mr. Ralph Modjeski. A diagram showing the utter lack of uniformity in the requirements for strength of materials in the specifications of numerous railway companies was exhibited by Mr. T. L. Condron. He expressed the opinion that is most desirable that these requirements should be reduced to some uniform standard, thus enabling the mills to devote their energies to producing a high-grade material of uniform quality, instead of having to produce numerous qualities which vary slightly with each order. The discussion is to be continued at a later meeting.

NEW PUBLICATIONS

INDIANA ENGINEERING SOCIETY.—Report of the Twentieth Annual Meeting, Purdue University, Feb. 1 to 3, 1900. W. J. Cleary, Secretary, Greenfield, Ind. Paper; 6 x 9 ins.; pp. 157; illustrated. 50 cts.

This report contains a variety of papers on municipal and other engineering subjects.

RECENTLY IMPROVED METHODS OF SEWAGE DISPOSAL.—By John Butler Johnson, Dean of the College of Mechanics and Engineering. Bulletin No. 40, University of Wisconsin. Paper; 6 x 9 ins.; pp. 18. Madison, Wis.: University of Wisconsin. 25 cts.

This is a review of the recent practice and experiments in sewage treatment.

DROP IN ALTERNATING-CURRENT LINES. — By Ralph D. Mershon, Westinghouse Electric & Mfg. Co., Pittsburg, Pa. Sent upon request.

This paper is reprinted from the "American Electrician" of June, 1897. It tells how to calculate the drop in wires carrying single and polyphase alternating currents and gives tables and diagrams for that purpose. It is supplemented by a short description of the Westinghouse Type F compensator.

REPORT OF THE RAILWAY COMMISSIONERS OF NEW SOUTH WALES.—Report for the year ending June 30, 1900. Published by the Commissioners, Sydney, Australia. Paper; 4to; pp. 47; maps and diagrams.

The colony of New South Wales has now 2,811 miles of railway, and 71 miles of tramway or street railway, cable and steam traction in the latter being gradually replaced by the electric system with overhead wires. The report is accompanied by extended tabular statements as to traffic, freight carried, receipts and expenditures, etc.

THE AGING OF TRANSFORMER IRON.—W. Elwell Goldsborough, William M. Mordey, S. R. Roget, Arthur Hillyer Ford and J. A. Capp. Published and distributed free of charge by the General Electric Co., Schenectady, N. Y. Paper; 5 x 7½ ins.; pp. 92; tables and illustrations.

The material presented in this book has been gleaned from the writings of well-known scientific investigators on the important subject of the increase in core loss of electric current transformers due to the phenomenon known as aging. It will be found valuable by anyone interested in the subject.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½x6 ins., 6x9 ins., and 9x12 ins.)

LEATHER PACKINGS.—Detroit Valves & Washer Co., Detroit, Mich. One page price list.

METAL CEILINGS.—The Berger Mfg. Co., Canton, O. Paper; 3 x 6 ins.; illustrated.

Stamped metal ceilings of various designs are shown by this catalogue.

STARTING BOXES FOR ELECTRIC MOTORS.—Fort Wayne Electric Works, Fort Wayne, Ind. Paper; 8 x 10½ ins.; pp. 8; illustrated.

This catalogue describes starting boxes for direct current electric motors.

PUMPING MACHINERY.—Henry R. Worthington Hydraulic Works, Van Brunt St., Brooklyn, N. Y. Paper; 8½ x 6½ ins.; pp. 56; illustrated.

This is a catalogue of small and medium sized pumps fitted to be driven by gearing to an electric motor or by belting from a shaft.

STEAM SPECIALTIES.—Pittsburg Gage & Supply Co., Pittsburg, Pa. Paper; 4½ x 6½ ins.; pp. 16; illustrated.

This pamphlet describes a variety of devices, including contrivances for indicating and regulating the height of the water in the boiler.

CATCH BASIN COVERS AND VALVES.—Gardiner Campbell Co., 238 Oregon St., Milwaukee, Wis. Paper; 6 x 9 ins.; pp. 4; illustrated.

This concern makes a cast-iron cover and inlet grating combined, for manholes; also double-faced wedge valves from 3 to 36 ins. in diameter.

MOTOR VEHICLES.—De Dion-Bouton Co., Church Lane and 37th St., Brooklyn, N. Y. Paper; 3½ x 6 ins.; pp. 8; illustrated.

This leaflet calls attention to the line of motor carriages manufactured by the above company. They are fitted with the De Dion-Bouton gasoline motor.

WIND MILLS, HAND AND POWER PUMPS, TANKS AND WATER-WORKS SUPPLIES.—The U. S. Wind Engine & Pump Co., Batavia, Ill. Cloth; 6 x 10 ins.; pp. 194.

This is a priced catalogue of wooden and steel wind mills, pumps, and various accessories to both, and other goods used for water-works purposes.

NIGHT SOIL PUMPS AND APPARATUS.—The Odorless Excavating Co., 64 Federal St., Boston, Mass. Paper; 6 x 9 ins.; pp. 24; illustrated.

The apparatus to which this pamphlet is devoted includes a rock shaft force pump, mounted on two wheels, hose and accessories, a tank wagon and pitting barrels for use where the pump is not available.

GAS ENGINES.—Monarch Gas Engine Co., Indianapolis, Ind. Paper, 3½ x 6 ins., 4 pp.; 6 x 9 ins. circular; illustrated.

The folder shows the vertical engine, of 1½ to 2½ HP., while the circular refers to horizontal engines. The latter have single cylinders for 3 HP. to 25 HP., while the larger engine of over 30 HP. have double cylinders.

CASH REGISTERS.—National Cash Register Co., Dayton, O. Paper; 4 x 8 ins.; pp. 20; illustrated.

This pamphlet, entitled "Where Work is Pleasure," describes the model factory of the above-named company at Dayton, O. It tells of the advantages and comforts afforded to the employees, and the various illustrations give some idea of the beautiful surroundings of the works.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
Oct. 11.	Police stations (2),	New York, N. Y.	Sept. 27
Oct. 11.	Brick stable building,	Detroit, Mich.	Sept. 20
Oct. 11.	Sewage disposal beds (2),	Stratford, Ont.	Oct. 11
Oct. 11.	State road (1 mile),	Boston, Mass.	Oct. 11
Oct. 11.	Paving (6,000 yds.),	Newark, N. J.	Oct. 11
Oct. 12.	24-in. sewer (1,000 ft.),	Yeadon, Pa.	Oct. 11
Oct. 12.	Bridge,	Indianapolis, Ind.	Oct. 11
Oct. 12.	Bridge,	Williamsport, Ind.	Oct. 11
Oct. 12.	Officers' quarters,	Fort Rodman, Mass.	Oct. 11
Oct. 12.	School house, etc.,	Chicago, Ill.	Oct. 11
Oct. 12.	School house,	Peotone, Ill.	Oct. 11
Oct. 12.	Storehouse,	Fort Mott, N. J.	Sept. 13
Oct. 12.	Hospital building,	Ft. Washington, Md.	Sept. 20
Oct. 12.	Repairing superstructure,	Cincinnati, O.	Sept. 27
	Advertised Eng. News, Sept. 27 and Oct. 4.		
Oct. 12.	Wing walls,	Woodbury, N. J.	Sept. 27
Oct. 13.	Telp. exch.,	Santiago-de-Campostella, Spain.	Sept. 27
Oct. 13.	Steel hoist bridge (2),	Troy, O.	Sept. 27
Oct. 13.	Melan-arch bridge,	Washington, D.C.	Sept. 27
	Advertised, Engineering News, Sept. 27.		
Oct. 13.	Dredging,	Dry Tortugas, Fla.	Sept. 27
Oct. 13.	Sidewalk,	Washington, D. C.	Sept. 27
	Advertised, Engineering News, Sept. 27.		
Oct. 13.	Dykes,	Augusta, Ga.	Sept. 20
	Advertised, Eng. News, Sept. 20 to Oct. 11.		
Oct. 13.	Improving street,	Akron, O.	Sept. 20
Oct. 13.	Traveling crane,	Dayton, O.	Oct. 4
	Advertised, Engineering News, Oct. 4.		
Oct. 13.	Bridge and float,	New York, N. Y.	Oct. 4
Oct. 13.	Melan-arch bridge,	Washington, D. C.	Oct. 4
	Advertised, Engineering News, Oct. 4.		
Oct. 13.	Extending shop building,	Philadelphia, Pa.	Oct. 4
Oct. 13.	Telephone bonds ($50,000),	Paterson, N. J.	Oct. 11
Oct. 13.	Cement (25,000 bbls.),	Montreal, Que.	Oct. 11
Oct. 13.	Water mains, etc.,	Moline, Ill.	Oct. 11
Oct. 15.	Pipe sewer,	Toledo, O.	Oct. 11
Oct. 15.	Macadam road (2 miles),	Brewster, Mass.	Oct. 11
Oct. 15.	Stone arch bridge,	Doylestown, Pa.	Oct. 11
Oct. 15.	Bridges (3),	South Bend, Ind.	Oct. 11
Oct. 15.	Bridges (3),	Regina, N. W. T.	Oct. 11
Oct. 15.	Tunnel,	Fort Benton, Mont.	Oct. 11
Oct. 15.	Asphalt paving,	St. Joseph, Mo.	Oct. 11
Oct. 15.	Hydrants, valves, etc.,	Albany, N. Y.	Oct. 11
Oct. 15.	Well,	Toledo, O.	Oct. 11
Oct. 15.	Gasoline engine, pump, etc.,	Yankton, S.D.	Oct. 11
Oct. 15.	Plumbing, etc.,	Washington, D. C.	Oct. 11
Oct. 15.	Pipe sewers,	Florence, Colo.	Sept. 20
	Advertised, Eng. News, Sept. 20 to Oct. 4.		
Oct. 15.	Telephone exchanges,	Budapest, Austria	Aug. 23
Oct. 15.	U. S. building,	Carrollton, Ky.	Sept. 27
Oct. 15.	Office building,	Norfolk, Neb.	Sept. 27
Oct. 15.	Electric lighting,	Glenville, O.	Sept. 27
Oct. 15.	Asphalt paving,	Niles, O.	Sept. 27
Oct. 15.	Portland cement,	Washington, D. C.	Oct. 4
	Advertised, Eng. News, Oct. 4 to 25.		
Oct. 15.	Water tower,	Washington, D.C.	Oct. 4
	Advertised, Eng. News, Oct. 4 and 11.		
Oct. 15.	Electric lighting,	Egg Harbor City, N.J.	Oct. 4
Oct. 15.	Sewage pumping plant,	Mansfield, O.	Oct. 4
Oct. 15.	Post office building,	Paris, Ont.	Oct. 4
Oct. 15.	Water-works,	Ryan, Ia.	Oct. 4
Oct. 15.	School house,	Brooklyn, N. Y.	Oct. 4
Oct. 16.	Naval supplies,	Mare Island, Cal.	Oct. 4
Oct. 16.	Lock,	Ottawa, Ont.	Oct. 4
Oct. 16.	Fountains, etc.,	St. Louis, Mo.	Oct. 4
Oct. 16.	Water mains (2 miles),	Norwich, N. Y.	Oct. 4
	Advertised, Eng. News, Oct. 4 and 11.		
Oct. 16.	Municipal building,	Johnstown, Pa.	Oct. 4
Oct. 16.	U. S. building,	Annapolis, Md.	Sept. 27
Oct. 16.	School house,	Seger, Okla Ter.	Sept. 27
Oct. 16.	Electric plant,	Kirkwood, Mo.	Sept. 27
	Advertised, Eng. News, Sept. 27 to Oct. 11.		
Oct. 16.	Paving (5,800 sq.yds.),	Middletown, O.	Sept. 27
Oct. 16.	Pumping engines (4),	Cincinnati, O.	Aug. 16
	Advertised, Eng. News, Aug. 23, Sept. 6, 20, Oct. 4.		
Oct. 16.	Sidewalks,	Norwalk, O.	Sept. 20
Oct. 16.	Bridge substructure,	Cincinnati, O.	Oct. 11
Oct. 16.	Bridge,	Ogden, Utah.	Oct. 11
Oct. 17.	Coal handling apparatus,	Newport, R. I.	Oct. 11
Oct. 17.	Paving (3,500 yds.),	New Brunswick, N.J.	Oct. 11
Oct. 17.	Brass valves, hydrants, etc.,	Albany, N. Y.	Oct. 11
Oct. 17.	Water bonds,	Suffern, N. Y.	Oct. 11
Oct. 17.	Altering pumps, etc.,	Buffalo, N. Y.	Oct. 11
Oct. 17.	Boilers (W.-W.),	Rahway, N. J.	Oct. 11
	Advertised, Engineering News, Oct. 11.		
Oct. 17.	U. S. building,	Portland, Ore.	Sept. 20
Oct. 17.	Water plant, etc.,	Pottawatomie, Kan.	Sept. 27
Oct. 17.	Pumping machinery,	Gainsboro, Eng.	Sept. 27
Oct. 18.	Steel and castings,	Fort Monroe, Va.	Sept. 27
	Advertised, Eng. News, Sept. 27 and Oct. 4.		
Oct. 18.	Lock gates,	Ottawa, Ont.	Sept. 27
Oct. 18.	Penitentiary building, etc.,	New York, N.Y.	Oct. 4
Oct. 18.	Coal handling apparatus,	Washington, D.C.	Oct. 11
Oct. 18.	Pumping plant, etc.,	New York,	Oct. 11
Oct. 18.	Repairing armory,	Brooklyn, N. Y.	Oct. 11
Oct. 18.	Heating plant, etc.,	New York, N. N.	Oct. 11
Oct. 18.	Electric plant,	Coffeyville, Kan.	Oct. 11
	Advertised, Engineering News, Oct. 11.		
Oct. 18.	Paving (12,500 sq.yds.),	Rockford, Ill.	Oct. 11
	Advertised, Engineering News, Oct. 11.		
Oct. 18.	Water bonds,	Muscatine, Ia.	Oct. 11
Oct. 19.	Paving, etc.,	New York, N. Y.	Oct. 11
Oct. 19.	Bridge superstructure,	Ottawa, Ont.	Oct. 11
Oct. 19.	State canal work,	Albany, N. Y.	Oct. 11
	Advertised, Engineering News, Oct. 11.		
Oct. 19.	Brick paving,	Cincinnati, O.	Sept. 27
Oct. 19.	Bridge,	Batavia, O.	Sept. 27
Oct. 20.	Bridge,	Frankfort, Ind.	Sept. 27
Oct. 20.	Bridge,	Hailey, Idaho.	Sept. 27
Oct. 20.	Bridge,	Dayton, O.	Sept. 27
Oct. 20.	Sewer system,	Bowling Green, O.	Oct. 4
	Advertised, Eng. News, Oct. 4 and 11.		
Oct. 20.	Sewer,	Finch, Ont.	Oct. 4
Oct. 20.	Retaining walls, etc.,	Toledo, O.	Oct. 11
Oct. 20.	Fireproofing,	Washington, D. C.	Oct. 11
Oct. 20.	Electrical conduits,	Philadelphia, Pa.	Oct. 11
Oct. 21.	Timber wharf,	Bremerton, Wash.	Oct. 11
Oct. 22.	Brick pavement,	Dayton, O.	Sept. 27
Oct. 22.	Dredging,	Washington, D. C.	Sept. 27
	Advertised, Eng. News, Sept. 27 to Oct.		
Oct. 22.	Steel frame tower,	St. Augustine, Fla.	Sept. 27
	Advertised, Eng. News, Sept. 27 to Oct.		
Oct. 22.	Sewerage system,	Umatilla, Ore.	Sept. 27
Oct. 22.	Bridge,	Sydney, N. S. W.	Sept. 27
Oct. 22.	Dormitory, etc.,	Umatilla, Ore.	Sept. 27
Oct. 22.	Town road (7.93 miles),	Somerville, N. J.	Oct. 4
	Advertised, Eng. News, Oct. 4 and 11.		
Oct. 22.	Pumping engines (2),	Pittsburg, Pa.	Oct. 4
Oct. 22.	Paving,	South Bend, Ind.	Oct. 11
Oct. 22.	Police station,	Providence, R. I.	Oct. 11
Oct. 22.	High school building,	Minonk, Ill.	Oct. 11
Oct. 23.	Sewers,	Elkhart, Ind.	Oct. 11
Oct. 23.	Tramway materials,	Glasgow, Scotland.	Oct. 11
Oct. 23.	Macadam roads,	Paterson, N. J.	Oct. 11
Oct. 23.	Basement for U. S. building,	Butte, Mont.	Oct. 4
Oct. 23.	Water pipe,	Leipsic, O.	Sept. 27
Oct. 24.	Officers' quarters, etc.,	Ft. D. A. Russell, Wyo.	Oct. 4
Oct. 24.	Canal work,	Ottawa, Ont.	Oct. 11
Oct. 25.	Vault,	Washington, D. C.	Oct. 11
Oct. 25.	Revetment walls,	Columbus, O.	Oct. 11
Oct. 25.	Macadam roads (18 miles),	Decatur, Ind.	Sept. 27
Oct. 26.	Electric lighting,	Cienfuegos, Cuba.	Sept. 27
Oct. 26.	Stable building,	West Point, N. Y.	Oct. 11
	Advertised, Eng. News, Oct. 11 and 18.		
Oct. 26.	Electric motors (4),	New London, Conn.	Oct. 11
Oct. 27.	Improving street,	Collinwood, O.	Oct. 11
Oct. 27.	Bridge substructure,	Chicago, Ill.	Oct. 11
Oct. 27.	Granite curbing,	Washington, D. C.	Oct. 11
	Advertised, Engineering News, Oct. 11.		
Oct. 27.	Building,	Norfolk, Va.	Oct. 11
Oct. 28.	Steel tower,	New London, Conn.	Oct. 4
Oct. 29.	Lift bridge,	Cobram, N.S.W.	Sept. 27
Oct. 29.	Brick sewers,	Toledo, O.	Oct. 11
Oct. 29.	Hose houses (2),	Hamilton, O.	Oct. 11
Oct. 30.	Electric pumps,	Montreal, Que.	Oct. 11
Oct. 30.	Indian houses (25),	Ponca, Okla. Ter.	Oct. 11
Oct. 30.	Hydraulic dredge,	Detroit, Mich.	Sept. 27
	Advertised, Eng. News, Sept. 27 and Oct. 4		
Oct. 31.	Refuse destructor,	Adelaide, So. A.	Sept. 20
Oct. 31.	Iron work, etc.,	Alexandria, Egypt.	Sept. 27
Oct. 31.	Excavating,	Cincinnati, O.	Oct. 4
	Advertised, Eng. News, Oct. 4 to 25.		
Oct. 31.	Pumping plant, etc.,	Fort Mott, N. J.	Oct. 11
	Advertised, Eng. News, Oct. 11 and 18.		
Nov. 1.	Pumping engine,	Harrisburg, Pa.	Oct. 11
Nov. 1.	Stone wall,	San Francisco, Cal.	Oct. 11
Nov. 1.	Lock,	Cincinnati, O.	Oct. 11
	Advertised, Eng. News, Oct. 11 to 25.		
Nov. 1.	Electric railways,	Philadelphia, Pa.	Oct. 4
Nov. 2.	Electric plant,	Piatra Neamtz, Roumania.	Sept. 13
Nov. 3.	Well, etc.,	Bremerton Naval Stat'n, Wash.	Oct. 4
Nov. 3.	Sewer,	West Roxbury, Mass.	Oct. 11
	Advertised, Eng. News, Oct. 11 and 18.		
Nov. 3.	Pipe sewers (8,000 ft.),	Lakewood, O.	Oct. 11
Nov. 4.	Electric plant, etc.,	Philippopoli, Bulgaria.	Sept. 27
Nov. 4.	Electric railway,	Philippopoli, Bulgaria.	Sept. 27
Nov. 5.	Removing rock,	New York, N. Y.	Oct. 4
	Advertised, Eng. News, Oct. 4 to 25.		
Nov. 5.	Electric plant,	Houston, Tex.	Sept. 13
Nov. 5.	Basement of U. S. building,	Helena, Mont.	Oct. 11
Nov. 5.	Water bonds,	Sheridan, Wyo.	Oct. 11
Nov. 7.	Gravel road,	Atlantic City, N. J.	Sept. 20
	Advertised, Eng. News, Sept. 20 to Oct. 25.		
Nov. 7.	Wire netting (200 mls.),	Adelaide, S. Aus.	Sept. 20
Nov. 9.	Railway work,	Indo-China (Paris).	Sept. 27
Nov. 9.	Plumbing, etc.,	Portland, Ore.	Oct. 11
Nov. 9.	Shore protection,	Jamestown Isld., Va.	Oct. 11
	Advertised, Eng. News, Oct. 11 to Nov. 1.		
Nov. 10.	Belting, nails, cement, etc.,	Cairo, Egypt.	Oct. 11
Nov. 12.	Heating plant,	Syracuse, N. Y.	Oct. 11
Nov. 12.	Water pipe, etc.,	Bundaberg, Queensland.	Aug. 30
Nov. 14.	Electric railway,	Lahore, India.	Aug. 30
Nov. 14.	Plans for jail,	Merced, Cal.	Oct. 4
Nov. 15.	Battleships,	Washington, D. C.	July 26
Nov. 16.	Railway materials, etc.,	Indo-China (Paris)	Sept. 27
Nov. 25.	Street cleaning machine,	Kensington, Eng.	Sept. 13
Nov. 30.	Port works,	Recife (Rio), Brazil.	Sept. 27
Dec. 5.	Court house addition,	Atlanta, Ga.	Oct. 11
Dec. 7.	Constructing cruisers,	Washington, D.C.	Oct. 11
Dec. 15.	Electric lighting,	Labruyere, France.	Oct. 11
Dec. 15.	Sewer and water bonds,	New Orleans, La.	Sept. 13
Dec. 15.	Bridge work, etc.,	Indo-China (Paris).	Sept. 27
Dec. 31.	Insulating gloves,	Paris, France.	Aug. 9
Jan. 9.	Pumping engine,	Melbourne, Victoria.	Sept. 20
Jan. 12.	Sewage pumping plant,	Boston, Mass.	Oct. 11
	Advertised, Eng. News, Oct. 11 and 18.		
Feb. 21.	Powder works,	Rio de Janeiro, Brazil.	Sept. 20
Mar. 1.	Rice drying machinery,	Novaro, Italy.	Sept. 27
Mar. 25.	Sewerage system,	Basford, Eng.	Sept. 13
No date.	Railway construction,	Alexandria, La.	Oct. 4
No date.	Electric plant,	Denison, Tex.	Oct. 11
"	Filling, sand,	St. Louis, Mo.	Oct. 11
	Advertised, Engineering News, Oct. 11.		

RAILWAYS.

BRISTOL & NESHAMING.—Incorporated in Pennsylvania with $25,000 capital stock, to build a line of railway 2½ miles in length in Bucks County. G. R. White, J. K. Ennis and A. K. David, Philadelphia, are interested.

CAROLINA NORTHERN.—It is stated that contracts are soon to be let for an extension of this road from Barnesville, N. C., to Marion, S. C. T. C. McNeely, Gen. Supt., Lumberton, N. C.

CHICAGO, MILWAUKEE & ST. PAUL.—This company has filed with the Secretary of State of South Dakota a plat of the new line which is to be built at Redfield. The work is a change of the present track. D. J. Whittemore, Ch. Engr., Chicago, Ill.

CHICAGO & NORTHWESTERN.—The company has laid a proposition before the business men of Stevens Point, Wis., to extend its line through that city from Princeton to Eland Junction. A branch from Almond to Marshfield is proposed, according to reports. D. Rounsville, Kaukauna, Wis.

DAKOTA, NEBRASKA & SOUTHERN.—John H. Bowman, Bee Bldg., Omaha, Neb., informs us that the company is now arranging for letting contracts for the construction of this line. The line will run from Grand Island, Neb., to Aberdeen, S. Dak., via Pierre, about 520 miles. Geo. S. Oliver, Ch. Engr., Bee Bldg., Omaha.

DES MOINES, IOWA FALLS & NORTHERN.—B. Schreiner, Ch. Engr., Des Moines, Ia., informs us that everything is in readiness for starting the construction

of this line, and contracts will probably be let in two weeks. The construction capital has been secured. The line will extend from Hubbard through Learing, Nevada and Cambridge, Ia., about 75 miles. E. S. Ellsworth, Pres., Iowa Falls, Ia.

GEORGIA.—It is stated that the Enterprise Lumber Co. is considering the proposition of extending its line to Hawkinsville. The company's line now extends from Worth to Pitts, 22 miles. A committee composed of W. A. Jenks and O. H. Hightower have been appointed by the town of Hawkinsville to confer with the officials of the company in regard to proposed extension.

HOCKING VALLEY.—F. B. Sheldon, Ch. Engr., Columbus, O., writes us that there is no truth in the report that the company will extend from Welston to Huntington, W. Va.

HOUSTON & TEXAS CENTRAL.—Reports state that this company will extend its road to Wheelock, Tex. J. M. Lee, Engr. and Supt., Houston, Tex.

KANSAS CITY, MEXICO & ORIENT.—The concession for building the Chihuahua & Pacific Ry., granted by the Mexican Government, has been transferred to this company. It gives a right to build through the states of Chihuahua and Sinaloa to the Pacific at Port Stilwell.

MARINETTE, TOMAHAWK & WESTERN.—N. E. Jeannot, Gen. Supt., Tomahawk, Wis., informs us that 15 miles of this road is now under construction and work is progressing favorably. The contract is let to Fuller & Huss, Contractors, St. Paul, Minn.

McPHERSON CREEK.—This company has been incorporated in Pennsylvania with a capital stock of $10,000, to build a road from Greers Station, on the Chartiers Valley Ry., to McPherson Mill, in Washington County. A. M. Linn, J. E. Barnett and Wm. Denney, Washington, are interested.

MARION & RYE VALLEY.—Thomas L. Woodruff, Pres., Roanoke, Va., wrties us that the surveys for this line have been made and rights of way obtained. A part of the capital has been secured for construction and contracts will be awarded in the spring. The road is to be from Sugar Grove, Va., to Rye Valley, a distance of 20 miles. About 6½ miles is already in operation, carrying 2,500 tons of ore a month.

MARION CREEK.—Incorporated in Pennsylvania with $25,000 capital stock, to build a line in McKean County, to be about 6½ miles in length. T. F. Richmond, S. Gorton and D. M. Brasted, Smithport, are incorporators.

MOLINE & PEORIA.—Incorporated in Illinois with $100,000 capital stock, to build and operate the new extension of the Davenport, Rock Island & Northwestern Ry., from East Moline through Rock Island, Henry, Warren, Knox, Fulton and Peoria counties to Peoria, with a branch line to either Canton or Havana. The contract for building this line as far as the Rock River has been let to Wm. Kenefich & Co., Contractors, Clinton, Ia. The plans for the bridge across the river have been prepared, but the contract for its erection has not been awarded. Work on the road will be started soon. Clyde A. Morrison, Herbert D. Howe and Gordon J. Murray, of Chicago, are directors of the new company.

PENNSYLVANIA R. R.—The company's engineers are said to be preparing plans for the elevation of tracks in Washington, D. C. A bill authorizing the work will be introduced at the next session of Congress.——Surveys are being made for a new branch of the West Penn division of this road, to extend from Saltsburg, Pa., into Indiana county for a distance of 12 miles. The surveys will be completed this fall and the construction started in the spring, according to reports. W. H. Brown, Ch. Engr., Broad St. Station, Philadelphia, Pa.

PHOENIX LOGGING CO.—H. T. Browne, Ch. Engr., Hoodsport, Wash., informs us that the preliminary location for the company's 15 miles of logging railway has been made and contracts for the construction will be let next month. About seven miles have been permanently located. The construction capital is secured. It was the company's original intention to build a switchback on 3¼% grade. The line as now proposed will be a standard gage, using a 60-lb. rail, with a grade of 7% for 2½ miles. Logs will be hauled without cars between the rails by a 50-ton locomotive. S. G. Simpson, Pres., Seattle, Wash.

PITTSBURG & FAIRMONT SHORT LINE.—Reports from West Virginia state that B. B. Gonter, W. G. Fritz, Lancaster, Pa.; S. R. McGough, J. H. Baldwin, Baltimore, Md., and others have gone over the route surveyed for this line for the purpose of estimating on the cost of grading, etc. It is stated that the construction will be rushed to a rapid completion. The road will run by way of Rivesville to Fairview, and will have a total length of 16 miles. O. S. McKinney, P. W. Fleming, Fairmont, W. Va., and T. W. Fleming, Baltimore, Md., are interested.

PITTSBURG, SHAWMUT & NORTHERN.—Frank S. Smith, Vice-Pres., Angelica, N. Y., informs us that the contract for building the line from the Pennsylvania state line to Angelica, N. Y., including the changing of the gage from the state line to Bolivar, about 33 miles, is let to the Warren-Burnham Co., Contractors, 81 Fulton St., New York. The work will cost about $900,000. The same company has the contracts for building a bridge over the Erie R. R., near Belvidere, N. Y., to have a 100-ft. span, stone foundation, estimated cost, $10,000, and a bridge over the Genessee River, with a span of 200 ft., stone abutments, to cost $25,000. Wm. B. Parsons, Ch. Engr., 22 William St., New York.

SAVANNAH WHARF & TERMINAL CO.—This company has been incorporated in Georgia with $20,000 capital stock, to build a terminal railway in Savannah, Ga., connecting the Central with the Savannah, Florida & Western R. R. Wm. A. Gordon, Thomas Hunter and Jos. A. Logan, Savannah, are interested.

SOUTHERN PACIFIC.—J. Kruttschmitt, Gen. Mgr., San Francisco, Cal., writes us that the only improvement now being made or contemplated at Oakland, Cal., is the widening of the piers at Long Wharf for the accommodation of the Asiatic business.

SOUTH GEORGIA.—E. D. Lumsden, Ch. Engr., Quitman, Ga., informs us that Whiddon & McCrary, Contractors, Gainesville, Fla., have completed grading from Quitman, Ga., to within two miles of Greenville, Fla., a distance of 21 miles. The rights of way are secured. The line will extend from Greenville to Perry, Fla., about 51 miles. J. W. Oglesby, Pres., Quitman.

SUBURBAN SERVICE CO. OF CHICAGO.—This company is reported to have been incorporated in Illinois with a capital stock of $100,000, to build a railway in Knox, Henry, Rock Island, Mercer and Peoria counties. Pam, Glennon & Calhoun, a law firm of Chicago, is said to be interested.

UNION SPRINGS & NORTHERN.—Wm. Blunt, Union Springs, Ala., informs us that a charter has been applied for in Alabama and a commission appointed by the secretary of that state to open books for subscription. The proposed line, about 30 miles in length, has been surveyed and the rights of way secured. G. B. Wicks, Ch. Engr., Union Springs.

VALDOSTA SOUTHERN.—A right of way has been secured by J. M. Wilkinson, Pres., Valdosta, Ga., through Madison, Fla., to tap the Florida Central & Peninsular R. R. at that place, and grading is now under way, according to reports.

WINFIELD.—This company has been incorporated in Pennsylvania with $10,000 capital stock, according to reports, to build a railway from West Winfield to Dennis Mills, in Butler County. Fred W. McKee, Pittsburg; P. B. S. Bealor, Asp.nwall, and Sion B. Smith, Allegheny, are incorporators.

STREET AND ELECTRIC RAILWAYS.

PORTSMOUTH, N. Y.—Local papers state that the Boston & Maine R. R. is planning to build several extensions to its electric railway in this city, Rye and Newcastle. Petitions for permission to build the additions have been made. It is proposed to build as soon as the petitions are granted. H. Bissell, Ch. Engr., Boston, Mass.

ANDOVER, MASS.—The selectmen have granted a location to the Lawrence & Reading St. Ry. for a line through this town.

ATHOL, MASS.—It is stated that Arthur Hodges, Boston, and the Kendall Construction Co., Boston, have been awarded sub-contracts for the construction of the Athol, Phillipston, Templeton & Baldwinsville St. Ry. extensions. Rails have been purchased. Patrick Hirsh, Pres.

OXFORD, MASS.—The selectmen have granted a franchise to the Worcester & Southbridge St. Ry. Co. for a line through the northern part of this city.

PAWTUCKET, R. I.—The Union Traction Co. will begin the construction of a new line on Smithfield Ave. as soon as the permission is granted by the council. This line is to be completed by Jan. 1. An extension from the Pawtucket line to Saylesville and beyond will be made in the spring.

GREENWICH, CONN.—The Greenwich Tramway Co. has filed an application with the board of selectmen for permission to extend its tracks from Port Chester through the quarry district.

HARTFORD, CONN.—Local papers state that the New York, New Haven & Hartford R. R. will in two weeks begin the construction of a new trolley line through Greenwich, from East Portchester to Stamford. N. H. Heft, Ch. Elec. Dept., New Haven.

ALBANY, N. Y.—The railroad commissioners have approved the application of the Rochester & Suburban Ry. Co. for permission to issue $450,000 in bonds to be applied in connection with a reorganization of the company as well as for new construction.

ALTOONA, PA.—H. S. Linton, Cy. Engr., has plans for the utilization of the water power at Yellow Creek to be used for electric railway and lighting purposes. As soon as the plans are carried out it is the intention of promoters to build an electric railway from Hollidaysburg to connect with the Huntington & Broad Top R. R. at Everett. It is also planned to utilize the electric fluid for street and commercial lighting in this city.

BEAVER FALLS, PA.—The Beaver Valley Traction Co. is preparing plans for a new power house to be built near the company's car barns. H. Supples, Ch. Engr.

OAKMONT, PA.—The council has granted a right of way to the Oakmont & Wilkinsburg St. Ry. Co. for a line through this borough.

SHARON, PA.—It is stated that Townsend, Reed & Co., Contractors, of Council Bluffs, Ia., have been given permission to build an electric line from this city to Wheatland, about three miles in length. The line is to be completed in 60 days.

WILMINGTON, DEL.—The People's Ry. Co. has been authorized to build a belt line electric railway in this city. General Manager Crook states that the line will be in operation before the time limit of two years.

BALTIMORE, MD.—Reports state that a syndicate has been organized in this city to consolidate the street railway, electric light, gas and water power companies of Montgomery, Humbleton & Co., of Baltimore, are interested.

ELKTON, MD.—The council has granted the Cherry Hill, Elkton & Chesapeake City Electric Ry. a right of way for a single-track line through this city. The road is to be in operation by Sept. 1, 1901.

FREDERICK, MD.—C. C. Waters, Secy. Washington, Frederick & Gettysburg Ry. Co., Frederick, informs us that surveys for the company's electric line of 86 miles have been made from Frederick to Emmitsburg, and are in progress from Frederick to Rockville and eastward to Libertytown. The rights of way have been assured from Frederick to Thurmont. The construction capital has been subscribed for the link between Frederick and Thurmont. Contracts for this section will be let inside of four months. The board of directors appointed a committee at the September meeting to proceed with the construction of the road. By route of towns the line will extend from Washington, D. C., through Rockville, Frederick, Thurmont, Emmitsburg and Gettysburg, with a branch from Frederick to Libertytown. D. C. Winebrenner, Pres., Frederick. The chief engineer is yet to be appointed.

LEESBURG, VA.—Chas. C. Campbell, of Fairfax county, and ex-Senator Henderson, of Missouri, are said to be the chief promotors of a company recently organized to build an electric railway from Washington west and northwest through Alexandria, Fairfax and Lendown counties.

SPRINGFIELD, O.—Application has been made to G. H. Frey, Jr., to the board of public affairs for permission to build an electric street railway on certain streets in this city.

YOUNGSTOWN, O.—The franchises and property of the Youngstown Lighting Co. has been transferred to Penhale & Fisher, 20 Broad St., New York, who have financed the Youngstown & Sharon Electric Ry. The contract for building this line has been let to Park & Hamilton, Contractors, Youngstown, and operations will soon be started under the superintendence of Harry Hamilton.

HUNTINGTON, IND.—J. P. Dale, an electrical engineer, of Chicago, and C. C. Miller, Fort Wayne, have petitioned the council for a renewal of the franchise to build an electric line from this city to Ligonier, with a branch line towards Muncie.

INDIANAPOLIS, IND.—The contract for building the Indianapolis & Martinsville Traction Co.'s electric road is reported to have been let Sept. 26. The grading will be started Nov. 1, and the construction will be pushed so as to have the line completed to Mooresville, a distance of 16 miles, by about March 15. The entire line of 32 miles is to be completed within six months. Steel bridges and culverts and 75-lb. rails will be used. The power house will be located at Mooresville.

LAFAYETTE, IND.—An electric railway is projected between this city and Covington or Veedersburg. Local capitalists are behind the scheme and are reported to be taking preliminary steps for the line.

JACKSON, MICH.—The Jackson Suburban Traction Co. has been organized with a capital stock of $300,000, to build a street railway from this city to Grass Lake. Grading will commence at once. Wm. A. Boland, Wm. F. Shaler, Grass Lake, and James B. Foote, Jackson, are interested.

PORT HURON, MICH.—The City Electric Ry. Co. has been granted a franchise for a line through this city.

ST. JOHNS, MICH.—The Crystal Lake Ry. Co. has been incorporated with a capital stock of $25,000, to build a trolley line to Crystal. The directors of the company have three routes under consideration. E. P. Waldron, Pres.; David S. French, Vice-Pres.; Thomas Bromley, Secy.

MANITOWOC, WIS.—The council will vote on the proposition of granting a franchise to Thomas Higgins, Neenah, for an electric railway through this city to Two Rivers, at the meeting to be held Oct. 15.

MINNEAPOLIS, MINN.—Edward P. Burch, Consulting Electrical Engineer, 1210 Guaranty Bldg., Minneapolis, informs us that preliminary surveys only have been made for the Decorah & Waukon Electric Ry. Co.'s line, which will extend between those towns, about 25 miles. The construction capital has not yet been secured. M. H. Burtis, Pres., Decorah; M. S. Howard, Ch. Engr., Waukon.

PINE BLUFF, ARK.—The council has granted W. H. Keyser an extension of three months time in which to begin the construction of the electric street railway in this city. Mr. Keyser has promised to expend $5,000 on the work of construction before Dec. 1.

SOUTH McALESTER, IND. TER.—J. F. Craig, South McAlester, writes us that franchises for the Union Electric Ry. have been obtained from this town to McAlester. The construction will not be started until all the capital is raised. The line will run from this town through McAlester, Krebs, Alderson, Cherryvale and Hartshorne, about 25 miles. E. E. White, Pres., South McAlester. The chief engineer is not selected.

ELECTRIC LIGHT AND POWER.

NORTH NEW PORTLAND, ME.—Press reports state that C. H. Bartlett will shortly erect a plant here.

MARBLEHEAD, MASS.—It is stated that the council intends to enlarge the present plant, at a cost of about $10,000.

NEW LONDON, CONN.—Bids are asked until Oct. 26 for delivering two 5-HP. motors and two 3½-HP. motors, complete. Maj. S. S. Leach, U. S. Engr.

NEW LONDON, CONN.—We are informed that the following bids were received Sept. 14 by Maj. S. S. Leach, U. S. Engr., for furnishing two accumulators, (1) being price for the two accumulators, (2) date of delivery, (3) maker of accumulator: New Jersey Foundry & Machine Co., New York, (1) $5,947, (2) 5 weeks, (3) Electric Storage Battery Co. (alternative $4,957, 9 weeks, different accumulators), (accepted); Skiff, Jordan & Co., New York, (1) $6,170, (2) 5 weeks, (3) Elec. Stor. Battery Co.; Thomas & Betts, New York, (1) $5,605, (2) Nov. 1, (3) Helios-Upton Co.; Sipe & Sigler, Cleveland, O., (1) $5,500, (2) Nov. 1, (3) Sipe & Sigler; Gould Storage Battery Co., New York, (1) $6,373, (2) 3 months, (3) Gould Storage Battery Co., alternative $6,677 (wood tanks, different accumulator, 3 months), alternative $6,687 (different accumulator, 3 months); Electric Storage Battery Co., Philadelphia, Pa., (1) $6,245, (2) 5 weeks, (3) Electric Storage Battery Co., alternative $5,291 (different accumulator, 9 weeks); and the following, Sept. 21, for furnishing switchboards and instruments, (1) being the price for three switchboards and instruments and (2) the time of delivery: Metropolitan Switchboard Co., New York, (1) $1,025, (2) one month (bidder refused to make proposition good); General Incandescent Arc Light Co., New York, (1) $1,852; Crouse-Hinds Electric Co., Syracuse, (1) $1,495, (2) two weeks; American Electric & Maintenance Co., New York, (1) $1,917, (2) Nov. 5; General Electric Co., Schenectady, (1) $1,550, (2) Dec. 30; D'Olier Engineering Co., Philadelphia, Pa., (1) $1,645, (2) Nov. 1; Helios-Upton Co., Philadelphia, Pa., (1) $2,098, (2) Nov. 21; Northern Engineering Co., New York, (1) $1,474, (2) 30 days (accepted in default of No. 1); The Burnet Co., New York, (1) $1,500, (2) Dec. 15; James S. Barron & Co., New York, (1) $1,497, (2) Oct. 22; McCay Engineering Co., Baltimore, Md., (1) $1,872, (2) Nov. 17; W. S. Hill Electric Co., New Bedford, Mass., (1) $1,590, (2) Nov. 8; Naval Electric Co., New York, (1) $1,815, (2) Oct. 12.

HEMPSTEAD (L. I.), N. Y.—At a special election held Oct. 9 the people of this city are said to have voted to issue $100,000 in bonds for erecting a plant and waterworks.

MIDDLEPORT, N. Y.—A special election will be held Oct. 15, according to reports, to vote on the question of issuing $10,000 in bonds for a plant. W. J. Hinchey, Clk.

ALTOONA, PA.—Harvey S. Linton, Cy. Engr., is said to have purchased and surveyed the water power in Yellow Creek in Bedford county. A company is now being formed to build a dam and power house, and also a street railway.

PHILADELPHIA, PA.—Bids are asked until Oct. 20 for constructing an underground conduit system and manholes for electric wires at the League Island navy yard. M. T. Endicott, Ch. Bureau Yards and Docks, Navy Dept., Washington, D. C.

TIONESTA, PA.—D. W. Clark, Boro. Secy., is said to be preparing estimates for a plant here.

BALTIMORE, MD.—Chief Engineer Phelps, of the Subway Commission, has prepared estimates of a plant for Druid Hill Park, which, if located at the Mount Royal Pumping Station, would cost $10,234, or, if located in Druid Hill Park, would cost $9,954.

RADFORD, VA.—A company, of which Geo. W. Miles is said to be president will erect a plant on the Little River, near here.

WELDON, N. C.—Press reports state that the Roanoke Navigation & Water Power Co. has let the contract for its plant here to Morton, Reed & Co., Baltimore, Md., at about $25,000.

WASHINGTON, GA.—L. J. Hill is said to be negotiating for the purchase of the property and rights of the Anthony Shoals Co.

TULLAHOMA, TENN.—The board of aldermen has appointed a special committee to let a contract for lighting the city for three or five years.

ASHLAND, KY.—The Ohio Valley Electric Co., will, it it said, spend about $200,000, in improving and enlarging its plant here.

DETROIT, MICH.—We are informed that Samuel F. Hodge submitted the lowest bid Oct. 5 to the public lighting commission, at $15,900 and $16,300, for engines at the power house.

KALAMAZOO, MICH.—The council will soon receive bids either for erecting a new plant to light the suburban streets, or let the contract to some established company, according to reports.

ARCADIA, IND.—Press reports state that the plant, owned by A. E. Goodykuntz, was recently destroyed by fire.

HUNTINGTON, IND.—At a special election, the people of this city recently voted in favor of the proposed issue of bonds for a plant and water-works.

CHICAGO, ILL.—The council has approved a contract with the sanitary commissioners for the development of water-power in the canal at Lockport.

PLYMOUTH, WIS.—The council is said to have let the contract for constructing a plant and water-works to W. H. Wheeler, 756 The Rookery, Chicago, Ill., at $69,925.

COFFEYVILLE, KAN.—Bids are asked until Oct. 18 for erecting a plant complete, as stated in our advertising columns. T. C. Frazier, Mayor; Rosa Bell, Cy. Clk.

SARATOGA, WYO.—A plan is said to be on foot to construct a plant on the Platte River, near this city. A dam will be built across the river near Bennett's Peak.

DENISON, TEX.—Bids are asked by the American Cotton Spinning Co. for installing a plant. T. F. Snyder, Secy.

WALLA WALLA, WASH.—The council is said to have granted a franchise to a company which will erect a plant.

PORTLAND, ORE.—J. F. Merzies, Engr., Cornucopia, writes us that the La Grande Light & Power Co. has let a contract to the General Electric Co., Schenectady, N. Y., for one 3-phase 150-K-W. alternator, and to J. Slaten & Co. for a 160-ft. dam.

ROSEBURG, ORE.—The council has granted a franchise to the Roseburg Water & Light Co., to erect a plant. W. H. Hurlburt, Pres.; C. O. Morgan, Secy.

CHARLOTTETOWN, P. E. I.—We are informed that no action has yet been taken in regard to the proposed municipal plant. H. M. Davison, Cy. Clk.

BRIDGES.

GRASMERE, N. H.—The contract for building a steel bridge over the Piscataquog River, in this town, has been let to the Berlin Iron Bridge Co., East Berlin, at $1,800.

FERRISBURG, VT.—This town is said to be considering the question of erecting two new steel bridges—one over the mouth of Dead Creek, and the other over Little Otter Creek.

MALDEN, MASS.—City Engineer Wetherbee has estimated the cost of abolishing the Pleasant St. railway crossing at $129,000.

BRANFORD, CONN.—M. P. Rice, selectman, writes us that an appropriation is to be made for the repair of the bridge over the Branford River at the foot of Rogers St.

DEEP RIVER, CONN.—A new bridge is to be built at Bridge St., in this town, according to reports.

GRANBY, CONN.—It has been voted to raise $3,500 for the construction of roads and bridges.

NEW HAVEN, CONN.—The committee on railroads and bridges is considering the proposition of building a drawbridge across Mill River at Grand Ave.

REDDING, CONN.—At a recent town meeting the sum of $2,000 was appropriated for the repair of roads and bridges.

STRATFORD, CONN.—The question of building a new stone arch bridge over New Lane Creek is being considered.

ALBANY, N. Y.—The following contracts were awarded by John N. Partridge, Supt. Pub. Wks., on Oct. 4, for constructing a bridge over Clear Creek: Berlin Iron Bridge Co., East Berlin, Conn., $5,036; for repairing the bridge over the Oneida River at Three River Point, near Phoenix, John Kelly & Co., Syracuse, N. Y., $2,107.

NEW YORK, N. Y.—A hearing will be held Oct. 23 by Maj. E. H. Ruffner, U. S. Engr., at Room 8, Army Bldg., New York, in reference to the proposed bridge across the East River, between Long Island and Wards Island at Hell Gate and the approaches over Bronx Kill and Little Hell Gate, to be built by the New York Connecting R. R. Co., 55 Broadway.

CARBONDALE, PA.—The council has appropriated $1,200 for the North Church St. bridge.

DARBY, PA.—It is stated that a new bridge will be built over Darby Creek, in this town.

DOYLESTOWN, PA.—Bids are asked until Oct. 15 for constructing a stone arch bridge, according to reports. E. E. Funk, Clk.

PHILADELPHIA, PA.—The following bids were received Oct. 2 by Director of Public Works Haddock for constructing a new bridge across the railway tracks at Coulter St., Germantown: Hoffman Engineering & Construction Co., $28,585; Richard Walsh, $27,335; Randolph & Baird, $24,400; David Peoples, $28,000; Ryan & Kelly, $26,950; Harmer & Quinn, $24,703; Philadelphia Construction Co., $22,985; T. W. Reilly, $24,000; S. B. Obdyke, $24,161; C. P. Weaver, $20,000; and P. McManus, $21,814.

PITTSBURG, PA.—Bids are asked until Oct. 13 for filling the approaches of five bridges. W. E. Thompson, County Auditor.

WILLIAMSPORT, MD.—The project of building an iron bridge to span the Potomac River at this place is being revived. It is stated that the proposed structure will cost about $35,000.

NEWPORT NEWS, VA.—The bridge committee of the council has awarded the contract for constructing a steel bridge over the tracks of the Chesapeake & Ohio Ry., in this city, to the Alabama Bridge & Iron Co., of Decatur, Ala. The contract price is $121,898, and the work is to be finished by July 1.

NEW ORLEANS, LA.—The contract for erecting the new $50,000 steel bridge for the Alabama & Vicksburg R. R., across the Pearl River, has been awarded, according to reports.

CINCINNATI, O.—Bids are asked until Oct. 16 for building the masonry substructure for the bridge at Spring Grove Ave., to cost about $49,250. Robt. Allison, Pres. Bd. Pub. Service.

HAMILTON, O.—The abutment to the bridge over Elk Creek is said to be in a dangerous condition. The commissioners have advertised for bids for a new abutment, to cost about $1,400.

INDIANAPOLIS, IND.—Bids are asked until Oct. 12 for constructing a bridge over Pleasant Run on Emerson Ave., Irvington, according to reports. Harry B. Smith, County Audr.——The county commissioners have awarded the contract for a bridge over the canal on the Westfield free road to Wm. Fife, at $1,100, for the substructure, and to the Lafayette Bridge Co., at $1,345, for the superstructure.——The contract for the substructure of the Sherman Drive bridge has been let to George Frazier, at $1,175, and the contract for the superstructure to the Indianapolis Bridge & Iron Co., at $1,114.

SOUTH BEND, IND.—Bids are asked until Oct. 15 for erecting a brick culvert and three iron bridges in St. Joseph county. John M. Brown, County Audr.

WILLIAMSPORT, IND.—Bids are reported wanted until Oct. 12 for constructing a 27-ft. I-beam bridge. W. H. Gemmer, County Engr.

CHICAGO, ILL.—Bids are asked until Oct. 27 for the construction of the substructure and approaches for a highway bridge over the north branch of the Chicago River at Clybourn Place, this city, according to reports. L. E. McGann, Comr. Pub. Works.

OSWEGO, ILL.—It is stated that the village board will immediately contract for two new iron bridges to be erected over the Waubousie Creek.

KAUKAUNA, WIS.—The contract for building the stone bridge at Combined Locks has been let to John Wendt, at $1,546.

SPARTA, MINN.—Reports state that the recent rains have washed out three bridges and nine dams on the Prairie River.

SOUTH OMAHA, NEB.—Local papers state that a new bridge is to be built across Mud Creek at Railroad Ave.

ST. LOUIS, MO.—Bids are wanted by the Geisel Construction Co., 715 Locust St., St. Louis, for from 80,000 to 100,000 yds. of sand filling in trestle approach by hydraulic method, as stated in our advertising columns.

FORT WORTH, TEX.—County Commissioner Barr is reported to have stated that the damage to bridges, culverts and county roads, caused by the high water, will amount to about $25,000.

SAN ANDREAS, CAL.—The bid of A. T. Lee for the construction of the bridge across Angeles Creek on the road from Angels to Vallecito has been accepted. The amount of the bid was $2,414.

SANTA ROSA, CAL.—The work of rebuilding the three bridges destroyed by the forest fires at Occidental will soon begin.

OGDEN, UTAH.—Bids are asked until Oct. 16 for constructing a bridge across the Ogden River, in Ogden Canon, Weber county, according to reports. The structure is to be of steel, 63 ft. long and 14 ft. wide. C. R. Hollingsworth, County Clk.

OTTAWA, ONT.—Bids are asked until Oct. 19 for constructing the iron superstructure for the inter-provincial bridge over the Ottawa River at Des Joachims, Pontiac county. Jos. R. Roy, Acting Secy., Dept. Pub. Wks.

REGINA, N. W. T.—Bids are reported wanted by the commissioner of public works until Oct. 15 for constructing bridges over Sturgeon River, Fulton and Oliver Creeks.

BUILDINGS.

FORT RODMAN, MASS.—Bids are asked until Oct. 12 for constructing complete, one single set of officers' quarters. H. P. Young, Q. M., Newport, R. I.

SPRINGFIELD, MASS.—E. A. Blodgett, Chn. School Bd., writes us that no plans will be prepared this year for the proposed school house on Emery St.

PROVIDENCE, R. I.—Bids are asked until Oct. 22 for constructing a police station at Potter's Ave. and Hamilton St. B. E. Perkins, Chn.; D. F. Hayden, Clk. Com.

NEW HAVEN, CONN.—Howells & Stokes, Archs., 45 Cedar St., New York, N. Y., write us that bids have been opened but contracts have not yet been let, for erecting the new administration building at Yale University.

BINGHAMTON, N. Y.—We are informed that the trustees of the Binghamton Barlow Industrial School intend to alter the Court St. block, not to build at present, as recently reported. L. S. Abbott, Supt., 83 Front St.

BROOKLYN, N.Y.—P. Tillion, Arch., 121 Meserole Ave., writes us that G. A. Morrison, 913 Sterling Place, is now receiving bids for four 3-story frame dwellings at Russell St., near Norman Ave., to cost about $25,000.——Plans have been filed by A. D. Isham, 1134 Flatbush Ave., for five 3-story brick dwellings, 20x46 ft., on Clarkson St., near Flatbush Ave., to cost about $35,000. T. H. Redcliffe, Arch., 824 Fulton St.; by Jerre J. Gilligan, 741 Carroll St., for three 4-story brick flats, 28x68 ft., on First St., near Prospect Park West, to cost about $36,000. T. Bennett, Arch., 198 53d St.; by Wichert Gardner, 839 Prospect Place, for a 5-story brick factory building, 60x140 ft., at Atlantic and Schenectady Aves., to cost about $60,000. C. H. Richter, Arch., 621 McDonough St.

BROOKLYN, N. Y.—Bids are asked by the Secretary of the Armory Board, Mayor's Office, City Hall, New York, until Oct. 18 for making alterations to the 14th Regiment armory at 14th St. and Eighth Ave.

BROOKLYN, N. Y.—The following contracts were received Oct. 9 by the board of education, 59th St. and Park Ave., New York, for installing a heating and ventilating and electric light plant in public school No. 171: John Neal's Sons, 218 Center St., New York, $51,752; Frank Dobson, 218 East 42d St., New York, $51,799; John Henken & Bro., E 13th St., New York, $52,187; Evans, Almirall & Co., 44 Dey St., New York, $52,500; Francis Bros. & Jellett, 72 Trinity Place, New York, $52,900; Williams & Gerstle, 44th St. and First Ave., New York, $53,711; Walker & Chambers, 50 East 20th St., New York, $54,320; Jas. Curran Mfg. Co., 512 West 36th St., New York, $55,000; E. Rutzler, 178 Center St., New York, $56,200. The following were the bids for the similar work in public school No. 126: Blake & Williams, 362 West Broadway, New York, $29,975; F. Dobson, $30,650; Evans, Almirall & Co., $31,250; Baldwin Engineering Co., 106 Beekman St., New York, $31,800; Walker & Chambers, $33,100; Williams & Gerstle, $36,000. Also for like work in public school No. 127: Frank Dobson, $21,200; Williams & Gerstle, $21,500; Evans, Almirall & Co., $21,950; Walker & Chambers, $22,700.

NEW YORK, N. Y.—Plans have been filed by E. R. Merrill, 361 West 19th St., for a 4-story brick factory building, 28x100 ft., at 527 West 27th St., to cost about $30,000. William Higginson, Arch., 108 Fulton St.; by John T. Williams, Stamford, Conn., for a 12-story brick office building, 71x113 ft., at 114 to 118 Liberty St. and 119 and 121 Cedar St., to cost about $350,000. John T. Williams, Jr., Arch., 27 William St.; by Geo. E. Wilson, 194 Broadway, for a 7-story brick apartment house, 101x95 ft., at Broadway and 112th St., to cost about $250,000. Neville & Bagge, Archs., 217 West 125th St.; by Philip Kransch, 1427 Bergen St., for two 5-story brick flats at Edgecombe Ave., near 141st St., to cost about $56,000. A. Balscherer, Arch., 669 East 135th St.; by the Bowery Savings Bank, for a 6-story brick office building at Broadway, Archs., 156 Fifth Ave.; by Chas. Englehardt, 830 Gerard Ave., for a 6-story brick dwelling, 25x86 ft., at 657 Tenth Ave., to cost about $28,000. W. C. Dickerson, Arch., 534 Willis Ave.

NEW YORK, N. Y.—Bids are asked by the department of correction, 148 East 20th St., until Oct. 18 for installing a new steam heating, passenger elevator and electric lighting in the new penitentiary block on Blackwell's Island.——Paul C. Hunter, 1148 Stebbins Ave., writes us that he is preparing plans for a 5-story brick and steel storage building on East 170th St., for Christina A. Spiressig, to cost about $25,000; also for a 4-story brick apartment house at Prospect Ave. and 169th St., for Henry White, to cost about $17,500.——The Contract Engineering Co., which has the contract for sinking the foundation for the new 20-story office building at Broad St. and Exchange Place, is said to have assigned the contract to H. E. Steal and D. E. Moran.

SYRACUSE, N. Y.—Bids are asked by the board of contract and supply, until Nov. 12 for installing a heating and ventilating plant in the May school house. Robt. H. Jones, Clk. Bd.; Jos. S. Saunders, Cy. Clk.——The high school commission has accepted the plans of A. Russell, 321 The Bascable, for the new high school building, to cost about $320,000. Bids will be advertised for at once.

WARNER, N. Y.—The school trustees of the town of Van Buren have awarded the contract for erecting a new school house here to Duane La Du.

WEST POINT, N. Y.—Bids are asked until Oct. 26 for erecting a stable for engineer and officers' horses, as stated in our advertising columns. Address Q. M., U.S.A.

HACKETTSTOWN, N. J.—The contract for erecting a 3-story brick administration building, 180x60 ft., two 3-story brick dormitories, each 205x40 ft., a dining hall, 3 stories, 80x42 ft., with a kitchen wing 80x40 ft., at the Centenary Collegiate Institute, to replace the burned buildings, has been let to the H. Wales-Lines & Co., 139 State St., Meriden, Conn., at $175,000.

ALLEGHENY, PA.—Edward Stotz, Monongahela National Bank Bldg., Pittsburg, is said to be preparing plans for an apartment house, 60x120 ft., in Fremont St., extension near Washington Ave., for James Young.

NORRISTOWN, PA.—The county commissioners have decided to enlarge the present court house at a cost of about $150,000.

PHILADELPHIA, PA.—The contract for erecting the new school house at 28th and Huntingdon Sts., is said to have been let to Thomas C. Trafford, 2335 North 5th St., at $69,300.——W. C. Pritchett, Jr., 418 Walnut St., is said to be preparing plans for an 8-story brick factory building at 227 to 231 South St.——The bureau of building inspection has authorized the erection of a 3-story stone school house, 125 x 108 ft, at York and Sepviva Sts., to cost about $75,000.

PITTSBURG, PA.—W. Y. Brady, Arch., 32 Stevenson Bldg., writes us that bids have not yet been asked for the proposed new engine houses on 8th St.

WILKESBARRE, PA.—F. J. Osterling, 701 Times Bldg., Pittsburg, writes us that plans have been prepared for a new court house, to cost about $60,000, contracts will not be let before some definite action is taken regarding a site.

BALTIMORE, MD.—Mullin & Bro., 6 North Liberty St., are said to have employed Paul Emmart to prepare plans for a 7-story brick addition 25x90 ft., to the Mullin Hotel on Baltimore St., to cost about $40,000.

WASHINGTON, D.C.—Bids are asked until Oct. 15 for new plumbing and new finish of toilet rooms in the Treasury building. Jas. K. Taylor, Supv. Arch., Treasury Dept.——Bids are asked until Oct. 20 for constructing a fireproof floor for the pattern shop building at the navy yard. M. T. Endicott, Ch. Bureau Yards and Docks, Navy Dept.——The district commissioners are said to have let the contract for erecting the new Barry Farm school house to Gleeson & Humphrey, 802 First St., at about $32,000.——John B. Brady, Building Inspector, will, it is said, soon have plans prepared for the proposed new police station in Columbia Heights, to cost about $29,000.

NORFOLK, VA.—Bids are asked until Oct. 27 for erecting a brick building, 38x45 ft., at the navy yard. M. T. Endicott, Ch. Bureau Yards and Docks, Navy Dept., Washington, D. C.

WYTHEVILLE, VA.—Press reports state that the contract for erecting the new court house here has been let to J. E. Parrish, of Lynchburg, at $35,900.

FAIRMOUNT, W. VA.—B. G. Williams is said to have prepared plans for a 5-story hotel building, 117x96 ft., to cost about $75,000.

DURHAM, N. C.—It is stated that Washington Duke has given Trinity College $100,000, which will probably be used for new buildings.

CHARLESTON, S. C.—We are informed that the following bids were received Oct. 3 by the U. S. Engineer for erecting the light depot at Castle Pickney: McCarrel & Sloan, Charleston, $33,000; Grant Wilkins, Atlanta, Ga., $39,400; Hoffman Engineering & Contracting Co., Philadelphia, Pa., $44,960; B. F. Kramer, Charleston, $31,900; Simons, Mayrant & Hertz, Charleston, $32,663.

ATLANTA, GA.—Bids are asked until Dec. 5 for making additions and alterations to the court house. H. M. Wood, Clk. Comrs.; Grant Wilkins, Engr.

LA GRANGE, GA.—W. L. Cleaveland writes us that the people voted on Oct. 3 against the proposed issue of $30,000 in bonds for erecting a new court house.

BIRMINGHAM, ALA.—Charles Wheelock & Son, Steiner Bldg., are said to be preparing plans for repairs to the old city jail building, to cost about $40,000.

NATCHEZ, MISS.—Thomas R. Quarterman, Cy. Clk., writes us that the council has rejected all bids received Sept. 25 for erecting the new school house, and has ordered that new plans be advertised for.

ASHTABULA, O.—The school board is said to be considering the question of erecting a new high school building, to cost about $25,000.

COLUMBUS, O.—Stillman Dutton, 815 New England Bldg., Cleveland, writes us that he has not yet completed plans for the proposed new 2-story fireproof law school and library building, 150x160 ft., for the Ohio State University, to cost about $30,000.

HAMILTON, O.—Bids are asked until Oct. 29 for erecting two new hose houses. J. Helvey, Pres. Bd. Control; M. O. Burns, Cy. Clk.

CHICAGO, ILL.—Bids are asked by the business manager of the board of education, until Oct. 12 for erecting an addition to the Avondale school, and for steam heating the Harrison school.——Joseph M. Huston, Witherspoon Bldg., will it is said, prepare plans for a new building on Chestnut St., for John Stafford, 1606 Susquehanna Ave.——Press reports state that Marshall, Field & Co. will erect a new building at 83 to 99 State St., to cost about $1,500,000. D. H. Burnham & Co., 1142 Rookery Bldg., are preparing plans; Harry Selfridge, Mgr.

MINONK, ILL.—Bids are asked until Oct. 22 for erecting a new high school building. J. A. Simpson, Secy. Bd. Education; J. M. Deal, Arch., Lincoln, Ill.

PEORIA, ILL.—Press reports state that Henry Weischmann, 217 West Madison St., has been awarded the contract, at $43,811, for erecting the new assembly hall. H. E. Hewitt, Arch., 24 Arcade Bldg.

GALESBURG, ILL.—Albert J. Perry, Chn. Bldg. Com., writes us that the following bids were received Oct. 1 for erecting a new library building. Each bidder submitted a number of alternate proposals, ranging between the two figures given: Redmond & Gibson, Logansport, Ind., $59,933 and $55,370; J. A. Ream, Galesburg, $62,439 and $56,736; Hjerpe & Munson, Galesburg, $54,600 and $46,900; Garthwait & Co., Chicago, $56,983 and $53,-

$40; Bartlett & Kling, Keokuk, Ia., $49,629 and $45,470; Peter T. Alson, Galesburg,$52,655 and $48,613; Peter McL. Davidson, Galesburg, $63,490 and $56,725. The bid of Bartlett & Kling was accepted, based on their proposal of $45,470, but the library board has several options which will vary the total amount somewhat.

PEOTONE, ILL.—Bids are asked until Oct. 12 for erecting a new school house. A. H. Cowing, Clk.

WEST SUPERIOR, WIS.—The building committee of the board of education is said to have decided to erect a new school house in the East End, to cost about $30,000.

DES MOINES, IA.—We are informed that B. Schreiner, 564 Good Block, will prepare plans for the 3-story brick warehouse, 132x55 ft., for the Port Huron Engine & Thresher Co.

SIOUX CITY, IA.—It is stated that the Union Ry. Terminal Co. will erect a 5-story brick warehouse,100x150 ft., to cost about $100,000. Sydney L. Wright, Pres.

MINNEAPOLIS, MINN.—Press reports state that Kees & Colburn are preparing plans for a new 11-story stone Chamber of Commerce building, 130x156 ft., to cost about $400,000

TOPEKA, KAN.—L. M. Wood has prepared plans for a lodge and office building for the Knights and Ladies of Security, to cost aboue $55,000, and will receive bids until Oct. 15, according to reports.

FORT KEOGH, MONT.—The following bids are said to have been received Sept. 25 by the quartermaster at St. Paul, Minn., for erecting a hospital building here; (1) being for construction, (2) heating, (3) plumbing, (4) gas piping: Kilby & Lamb,(2) $2,888,(3 and 4) $1,587; Shickleton & Whiteway (1) $19,625, (2) $2,888, (3) $1,194, (4) $190; Wm. F. Porter, (2) $4,072; E. A. Gagnor (1) $21,976, $22,976, or $24,773; Miles City Lumber Co. (1) $24,990, (2) $4,700, (3) $1,974, (4) $250; The Dwyer Plumbing & Heating Co., (2) 3,147, (3) $1,300, (4) $198; Augustus J. Archambo, (2) $3,590, (3) $1,313, (4) $58.

HELENA, MONT.—Bids are asked until Nov. 5 for constructing the basement of the new U. S. building. Jas. K. Taylor, Supv. Arch., Treasury Dept., Washington, D. C.

MISSOULA, MONT.——A. H. Stern, 601 Endicott Bldg., St. Paul, Minn., is said to have prepared plans for the new hospital buildings for the Northern Pacific R. R., to cost about $160,000.

PONCA, OKLA. TER.—Bids are asked until Oct. 30 for erecting 25 houses for Indians at the Ponca Agency. W. A. Jones, Comr. Indian Affairs,Department of the Interior, Washington, D. C.

DENVER, COLO.—Plans have been filed by the board of education for a new school house in Dist. No. 1, to cost about $72,022; by Jerome S. Riche for a 3-story apartment house, 15th and Tremont Sts., to cost about $30,000.

PORTLAND, ORE.—Bids are asked until Nov. 6 for the plumbing and finish of toilet rooms in the U. S. custom house. James K. Taylor, Supv. Arch., Treasury Dept., Washington, D. C.

WATER-WORKS.

BURLINGTON, VT.—The city engineer and superintendent of water-works have been directed to investigate the feasibility of laying more water mains in the streets along the water front and in certain other streets.

MIDDLEBURY, VT.—D. Rider, B. F. Sutton, E. C. Bryant, L. E. Mellen, E. P. Cushman, E. A. Burt and J H Sargent are on the committee appointed to investigate and report upon a new source of water supply. The committee has the authority to employ experts.

GLOUCESTER, MASS.—The question of authorizing the mayor and aldermen to petition the legislature for authority to issue more than $10,000 for water mains annually, as it is desired to extend the mains as soon as possible to Bay View and Somerville at a cost of about $30,000.

STONEHAM, MASS.—The citizens at a town meeting on Oct. 3 voted to expend $100,000 to buy the works of the Wakefield Water Co., located in Stoneham and $40,000 to enter the metropolitan water district. Another meeting will be held Oct. 17. Address Mr. Marden, Chn. Water Comrs., and J. W. Cawley.

ALBANY, N. Y.—Bids are asked by the board of contract and supply until Oct. 15 for furnishing fire hydrants, sprinkling tops and valves; bond, $500.

BATH, N. Y.—The question of a new source of water supply is proposed in case there should be trouble in regard to the filtration of the water by the East Albany Water Co. President Strevell, of the Citizens' Association; C. F. R. Coe and E. B. Knight are interested.

BUFFALO, N. Y.—Bids are asked until Oct. 17 for additions and alterations to pumping engines Nos. 1 to 9, inclusive, to the boilers at the pumping station, furnishing 7,000 small brass valves for the Gaskell engine, 1,000 extension cases for hydrant covers and 100 5 and 6-ft. hydrants. R. G. Parsons, Secy. Bd. Pub. Wks.

COHOES, N. Y.—The water board has directed the superintendent to purchase about 2,500 ft. of 6, 8 and 10-in. water main.

GILBOA, N. Y.—It is reported that this place proposes to build works.

HEMPSTEAD, (L. I.), N. Y.—This city on Oct. 9 voted to issue $100,000 in bonds for purchasing or constructing works and an electric plant. L. V. Water, Jr., Village Clk.

LESTERSHIRE N. Y.—The Lestershire Heights Water & Power Co. has been incorporated with a capital of $16,000, by M. S. Squires, I. T. Deyo, E. S. Ackley and others. The company will supply water to the Heights from the works of the Lestershire Water Co.

MENANDS, N. Y.—The residents of this place, a suburb of Albany, desires to secure a water supply from the Albany works at a cost of $15,000. Address Jos. A. Lawson, Menands P. O., Albany.

NEW YORK, N. Y.—Mayor Van Wyck has approved the resolution of the Municipal Assembly authorizing the issue of $1,010,000 for the construction of a 48-in. water main from the Milburn pumping station to Spring Creek, Brooklyn. The laying of the main is one of the measures planned to give a better water supply to the Borough of Brooklyn. The mayor has also approved the resolution for the laying of a water main in the Borough of the Bronx, from the Southern Boulevard to 173d St. Wm. Dalton, Comr. Water Supply, Park Row Bldg.——The American Filter Construction Co., 35 Wall St., submitted the lowest bids, Oct. 4, for the gravity filter plant for the Baiseley and Springfield streams, at $97,200 for a filter at the Jericho pumping station, at $88,050 for the Springfield station, and $7.50 for 500 yds. concrete. The New York Continental-Jewell Filter Co., 15 Broad St., was the only other bidder at $100,939, $94,128 and $6.50, respectively.

SARANAC LAKE, N. Y.—An election will be held Oct. 11 to vote on the question of issuing $50,000 in bonds for a new water supply from the McKenzie Pond. Allen Hazen, Consult. Engr., 220 Broadway, New York; W. E. Trombley, Pres. Bd. Sewer and Water Com.

PRATTSBURG, N. Y.—This place has voted to spend $1,000 for improving the works.

SUFFERN, N. Y.—Bids are asked until Oct. 17 for the purchase of $38,000 of bonds for the proposed works. A. S. Bush, Clk.

FORT MOTT, N. J.—Bids are asked until Oct. 31 for constructing works and a pumping plant, as stated in our advertising columns. J. deL. Lafitte, Constructing Q. M., Delaware City, Del.

FREEHOLD, N. J.—The following bids were received Oct. 1 for furnishing a 750,000-gallon pumping engine, f. o. b. cars, Freehold: The Snow Steam Pump Co., Buffalo, N. Y., $900; Henry R. Worthington, Brooklyn, $845; The Deane Steam Co., Holyoke, Mass., $875 and $750; Warren Steam P. Co., Warren, Mass., $694; The Stilwell-Bierce & Smith-Valle Co., Philadelphia, Pa., $725; John H. McGown Co., Philadelphia, Pa., $695; The Buffalo Steam Pump Co., N. Tonawanda, N. Y., $678; The Gardner Governor & Pump Co., Quincy, Ill., $650; Thos. A. Lewis, New York (Barr Pumping Engine Co.), (accepted), $648.

RAHWAY, N. J.—Bids are asked until Oct. 17 for furnishing two 100-HP. horizontal tubular boilers, as stated in our advertising columns. D. G. Urmston, Clk. Bd. Water Comrs.

BRADDOCK, PA.—Bids are asked until Oct. 15 for extending the water-works building. Geo. Vogel, Arch., 837 Braddock Ave.; S. D. Hamilton, Borough Secy.

CONNELLSVILLE, PA.—The residents in the district known as the Narrows have petitioned the American Water-Works & Guarantee Co., of Pittsburg, the owner of the local works, to make extensions to that section.

DONORA, PA.—The Donora Water Co. has been incorporated with a capital of $1,000 by W. H. Donner, S. H. Waddell, and R. R. Mellon, all of Pittsburg.

FREEDOM, PA.—Chandley Bros. & Co., Beaver Falls, Pa., have been awarded the contract for improving the works at Freedom, and also for extending the water mains at Vandegrift and Coraopolis.

HARRISBURG, PA.—Bids are asked by the water department until Nov. 1 for furnishing a 12,000,000-gallon high-duty, triple-expansion, vertical pumping engine.

IRWIN, PA.—The Brush Run Water Co. has been incorporated by David L. Newell, J. R. Hunter and E. H. Bair, to build works near Kecksburg.

LANCASTER, PA.—The councils have decided to begin a suit against Lebanon for using the water of Hammer Creek, a tributary of the Conestoga from which the city obtains it water supply.

McKEESPORT, PA.—Superintendent Verner, of the water works, has recommended an increase of the water service, including a new reservoir, new mains, etc. Bids for laying mains through the Library Manor lots are wanted until Oct. 15. Address Councilmen Inskeep, Chn. Com., Cowan and Evans.

MONONGAHELA, PA.—The Monongahela City Water Co. has let the contract for the well for an increased water supply to A. M. Abell. A new pump of 3,000,000 gallons capacity, etc., will be put in.

PHILADELPHIA, PA.—Geo. C. Dietrich, contractor, has secured a permit for building the Belmont pumping station to cost about $74,000.——The finance committee of the council is considering the question of issuing a loan of $750,000 at 4%, for independent fire mains in certain business streets. W. C. Haddock, Dir. Pub. Wks., and Chief Hand of the Bureau of Water, are inspecting fire mains in use in Detroit, Cleveland and Buffalo.

PLEASANT UNITY, PA.—Reports state that Col. P. F. McCann, of Greensburg, Pa., has been awarded the contract by the Standard Connellsville Coke Co., to build a 40,000,000-gallon reservoir near this place.

RICHMOND, VA.—Local papers state that a plan has been agreed upon for a new water supply. A reservoir with a capacity of 200,000,000 gallons is proposed. It is said that experts will be engaged to report on the feasibility of the project. Address Col. W. E. Cutshaw, Cy Engr., and Superintendent Bolling.

CHARLESTON, S. C.—The council has voted to accept the proposition of the Newark Water-Works Construction Co. to build new works for this city, to cost about $1,000,000. The water will be secured from the Edisto river through a 24-in. main. T. A. Beall, Pres. Newark W.-W. Con. Co.; J. L. Ludow, Engr.; Councilman Lapham, Chn. Com.

MACON, GA.—Mayor Smith has suggested a plan whereby the city might purchase the works of the Macon, Gas Light & Water Co.

GREENVILLE, ALA.—The question of purchasing the works and building an electric plant is being considered.

OXFORD, MISS.—This place has voted to issue bonds for works, an electric plant and sewers.

LEETONIA, O.—The water-works trustees have sunk wells for an increased water supply and will, it is reported, at once purchase a pump, etc.

LORAIN, O.—Bids are asked by the water-works trustees until Oct 13 for the building and foundations for a new pumping plant, according to reports.

TOLEDO, O.—Bids are asked until Oct. 15 for sinking an artesian well. J. E. Connell, Cy. Clk.

YOUNGSTOWN, O.—The council has adopted the plan for securing an additional water supply from Mill Creek, to cost about $600,000. The question will be submitted to a vote of the people at the election in November. F. M. Lillie, Cy. Engr.; F. H. Snow, Consult. Engr., Columbus, O., and Boston, Mass.; W. S. Hamilton, Supt. Thos. Peat Water-Works, trustee; W. J. Davies, Cy. Clk.; M. E. Dennison, Chn. Com.

COLUMBUS, IND.—The following bids were received Oct. 4 for constructing a feeder, crib, etc.: Dunlap & Co., Columbus, $7,925; Mansfield & Cleary, Indianapolis, Ind., $7,690; Erler & Peters, Terre Haute, Ind., $7,682; Stillinger & Lee, Columbus, $7,500 (accepted).

BAY CITY, MICH.—The council and the water commissioners have decided not to purchase mode than 50 tons of water pipe this season.

DURAND, MICH.—F. C. Brooks & Sons, Jackson, Mich., have been awarded the contract at about $30,000 for constructing works.

GRAND RAPIDS, MICH.—The city officials are working upon plans for a new and pure water supply. The city has one plan for securing water from Lake Michigan and also one for securing water from the lakes about 32 miles above this city in Newago county. There is also talk of filtering the river water supply. Address Councilman C. E. Slocum and Mayor Perry.

MACKINAC, MICH.—Reports state that the council wants bids for building and operating works.

WARREN, MICH.—This place is said to have voted for works and an electric plant.

ZION CITY, ILL.—The contract for the artesian well for the new water supply has been let to F. M. Gray, Milwaukee, Wis. It will be drilled to a depth of about 1,500 ft., and will give a flow of about 400 gallons per minute. B. J. Ashley, Engr., 1300 Michigan Boulevard, Chicago.

MOLINE, ILL.—H. C. Paddock, Cy. Engr., has been directed to prepare estimates for 12 and 16-in. pipe extensions. Local papers state that the construction of a new standpipe is assured. The matter of a site for the pump and reservoir has not yet been decided.

MOLINE, ILL.—Bids are asked until Oct. 13 for a 4-in. water main. P. H. Wessel, Pres. Bd. Local Improvements.

NEOGA, ILL.—The contract for water-works has been let to the R. Lester Thayer Co., of Peoria, Ill.

JANESVILLE, WIS.—The council has voted to direct the Janesville Water Co. to extend its mains to the locality about Spring Brook. Mayor V. P. Richardson has suggested that another fire well be sunk. C. S. Jackman, Treas.

HIRAM, IA.—The question of works is reported as being considered.

MUSCATINE, IA.—Bids are asked until Oct. 18 for the purchase of $100,000 of 4%, 4½% and 5% bonds to purchase the works of the Muscatine Water-Works Co. B. Schmidt, Mayor; B. C. Benham, Cy. Recdr.; W. L. Roach, Chn. Trustees.

STEWART, MINN.—M. B. Haynes, Mankato, Minn., is reported as preparing plans for works to cost $7,000.

YANKTON, S. DAK.—Bids are asked by the city clerk until Oct. 15 for furnishing a gasoline engine and pump with a capacity of 240 gallons a minute, or 360 gallons a minute for a 4½-in. artesian well, to an elevation of 30 ft. The bidder is to furnish the plans and specifications. W. N. Highey, Supt.

EAST GRAND FORKS, N. DAK.—Mr. Purcell has obtained an injunction against the city's spending $7,000 for improving the works.

LIDGERWOOD, N. DAK.—The question of works is reported as being considered.

SISSETON, N. DAK.—Reports state that this place has voted to issue $20,000 in bonds for gravity works.

HELENA, MONT.—It is stated that the city engineer has estimated the new works, with source of supply at McClellan Creek, 14 miles distant, at about $600,000.

SHERIDAN, WYO.—Bids are asked until Nov. 5 for the purchase of $30,000 of 4% bonds for the proposed extensions to the works. T. T. Howd, Town Clk.

COLORADO SPRINGS, COLO.—The question of enclosing that portion of Puxton creek between Lake Moraine and the intake by piping the water instead of allowing it to run open, is being considered. There would be about 9,600 ft. of pipe, and the work is estimated to cost from $32,000 to $60,000. Address Aldermen St. John and Clark.

CRIPPLE CREEK, COLO.—The Cripple Creek Pipe Line & Water Co. has been directed to extend its mains at a cost of about $90,000. The company also proposes to build four new reservoirs.

DENVER, COLO.—The Denver Union Water Co. has applied for a new franchise to cover every street and alley in the city.

SAN DIEGO, CAL.—The question of the city buying the works of the San Diego Water Co. for about $500,000 is being considered, according to reports. Should the property, which is owned by English capital, be sold to the city the litigation over the $1,500,000 of the city water bonds will be dismissed. An election will be held to vote on the question of issuing $600,000 in bonds for the purchase and for improvements.

PHOENIX, ARIZ.—Nothing definite has resulted from the agitation of the question of a permanent water supply of the Salt River Valley. W. A. Faush, Cy. Engr.

NEWMARKET, ONT.—Bids will be asked in a few days for furnishing a dynamo and pumps. H. S. Carne, Mayor.

CAYUGA, ONT.—The village is considering the question of works. The council has been authorized to purchase a dynamo for the plant just purchased. H. F. Strickland, Engr., 35 Adelaide St., East Toronto; I. W. Sheppard, Recvr.

MONTREAL, QUE.—Bids are asked until Oct. 30 for furnishing and installing one or two electric-pumping engines, including the motors, at the high-level pumping station. The pumps are to have a capacity of 3,500 gallons per minute. Jos. Marien, Supt. Water-Works.

SEWERAGE.

BOSTON, MASS.—Bids are asked until Jan. 12 for constructing a pumping plant on Ward St., requiring two 50,000,000-gallon pumps, engines, etc., as stated in our advertising columns. Wm. M. Brown, Jr., Ch. Engr., Metropolitan Sewerage Comrs., 1 Mt. Vernon St.

CHELSEA, MASS.—H. A. Hanson & Co. are said to have submitted the lowest bids to the metropolitan sewer commission at $31,918 and $23,847 for an addition to the metropolitan system in this city.

WAKEFIELD, MASS.—We are informed that the contract for boring in order to ascertain character of material down to sewer grade of outfall sewer has been let to E. A. Clark, 170 Summer St., Boston. Wm. B. Daniel, Secy. Sewer Comrs.

WEST ROXBURY, MASS.—Bids are asked until Nov. 3 by the Metropolitan Sewerage Commissioners, 1 Mount Vernon St., Boston, for constructing a high-level sewer in this town, requiring about 4,775 ft. of 9-ft. tunnel, as stated in our advertising columns. Wm. M. Brown, Jr., Ch. Engr.

WEST SPRINGFIELD, MASS.—This town is said to have made application for permission to build an outlet to the Connecticut River.

BINGHAMTON, N. Y.—It is stated that the council will engage Rudolph Hering, 100 William St., New York, to prepare plans for a new trunk sewer.

ROCHESTER, N. Y.—The council has decided to construct sewers in Ames and Bradley Sts. Theodore S. Pulver, Cy. Clk.

WOODBURY, N. J.—Alexander Potter, 135 Broadway, New York, N. Y., has estimated the cost of constructing a system at about $50,000, according to reports.

CONNELLSVILLE, PA.—J. B. Kurtz, Mayor, writes us that this city will put in a sewerage system either this winter or next spring. S. M. Foust, Engr.

POTTSVILLE, PA.—The council is said to be considering the question of constructing a system.

YEADON, PA.—Bids are asked until Oct. 12 for constructing about 1,000 ft. of 24-in. sewer in the Borough of Darby. W. H. Stetser, Chn. Sewer Com., Box 114.

BALTIMORE, MD.—The question of constructing a system in Walbrook is being considered, according to reports. O. W. Connet, Assist. Cy. Engr.

RICHMOND, VA.—The council will, it is said, appropriate $22,000 for reconstructing the sewer through penitentiary bottom.

GAINESVILE, FLA.—John F. Bartleson, Mayor, writes us that this city will probably put in a system in the next 60 days. No engineer has as yet been engaged.

BIRMINGHAM, ALA.—The question of constructing a sewer in Jefferson county, to run through Jones Valley from East Lake to Bessemer, and to cost about $400,000 is being considered, according to reports.

DOTHAM, ALA.—Press reports state that this city contemplates building a system.

NEW DECATUR, ALA.—E. C. Payne, Mayor, writes us that nothing has yet been done in regard to the proposed street and sewer improvements.

HATTIESBURG, MISS.—Hall & George, Starkville, write us that they have been engaged to prepare plans and specifications for a system for this city, to cost about $25,000. Plans to be completed in 60 days.

CINCINNATI, O.—The board of public service has decided to construct sidewalks and sewers in the streets to be used for parks and boulevards from the elbow of the canal to Sycamore St.

CLEVELAND, O.—The council has passed resolutions providing for the construction of sewers in nine streets. D. B. Stener, Pres. Council; H. H. Burgess, Cy. Clk.

LAKEWOOD, O.—Bids are asked until Nov. 3 for curbing, grading and draining Lake Ave. extension, requiring about 45,000 cu. yds. of excavation, 6,000 cu. yds. of excavation in tunnel, 11,600 lin. ft. of 7 × 20-in. curbing, 220 ft. of 30-in., 1,000 ft. of 24-in., 900 ft. of 20-in., 1,000 ft. of 18-in., 2,000 ft. of 15-in., 700 ft. of 12-in. and 2,000 ft. of 10-in. pipe sewers with 38 catchbasins and 100 cu. yds. of brick masonry. R. J. Wood, Hamlet Engr.

TOLEDO, O.—Bids are asked until Oct. 15 for constructing a 10-in. pipe sewer in the alley between South and Colton Sts., and until Oct. 29 for constructing a 30-in. brick sewer in Kelsey and Spring Grove Aves., and a 24 to 84-in. pipe sewer in Spring Grove Ave., Plymouth St and several alleys. John E. Connell, Cy. Clk.

ELKHART, IND.—Bids are asked until Oct. 23 for constructing sewers in East Washington and Middlebury Sts. and Aspenwold Ave. Kit McKean, Cy. Clk.

VINCENNES, IND.—We are informed that the question of constructing a system is being considered by the council.

CHICAGO, ILL.—Alderman Carey is said to be having plans prepared for the proposed sewer in Western Ave., from the drainage canal to 87th St. The work will cost about $1,000,000.

CHICAGO, ILL.—The council has passed a resolution providing for the construction of a sewer in 39th St., to cost about $35,000.

DUBUQUE, IA.—The following bids are said to have been received Sept. 20 by the council for constructing a stone arch sewer, including about 3,500 cu. yds. of rock masonry in the Bee branch: J. H. Boyes, $14,105; P. Eisbach, $13,055; P. J. Donahue, $14,630; Bryne & Saul, $13,650; O'Farrell & Norton, $14,385; Steuck & Linehan, $12,215 (accepted).

FERGUS FALLS, MINN.—E. T. Webster, Dubuque, Ia., is said to have submitted the lowest bid to the council at $2,660, for constructing the Bismark, Sheridan, Hampden and Mill Sts. sewers.

KANSAS CITY, MO.—The council has directed City Engineer R. W. Waddell to prepare plans and specifications for a sewer to run from 25th and Fairmount Sts. to the Missouri River at the Fourth St. viaduct, to cost about $130,000. This work is proposed to rid the city of the O. K. Creek nuisance.

PORTLAND, ORE.—The contract for constructing a sewer in Reed St. has, it is stated, been let to the Jacobsen-Bade Co. at $1,507.

EMERYVILLE, CAL.—It is stated that the council is considering the question of constructing a complete system.

PASADENA, CAL.—We are informed that the trustees will soon receive bids for constructing sewers in Adelia Ave., Walnut, Parke and Villa Sts. Herman Dyer, Cy. Clk.

POTRERO, CAL.—The board of supervisors has been asked to appropriate about $10,000 for constructing a system, according to reports.

OGDEN, UTAH.—A. F. Parker, Cy. Engr., writes us that the matter of sewers in 21st and 22d Sts., has only progressed as far as preliminary estimates and notice of intention to build. Bids will not be asked for some time.

FINCH, ONT.—Bids are asked until Oct. 20 for constructing a sewer in this town. John A. Cockburn, Town Clk.; Geo. L. Brown, Engr.

LONDON, ONT.—City Engineer Graydon estimates the cost of constructing two filter beds at about $6,000.

STRATFORD, ONT.—Bids are asked until Oct. 11 for constructing two sewage filter beds. Angus Smith, Cy. Engr.

MONTREAL, QUE.—Charpentier & Chagnon are said to have been awarded the contract for constructing a sewer in St. Andre St., at $13,865, and one in St. Hubert St. at $14,868.

FREDERICTON, N. B.—F. C. Coffin, 53 State St., Boston, Mass., estimates the cost of constructing a system for this city at about $83,000.

GARBAGE DISPOSAL—STREET CLEANING

BUFFALO, N. Y.—Fire destroyed the main building of the city garbage crematory, known as Baynes' Garbage Reduction Works on William St.; loss about $80,000. The company is said to have decided to terminate its contract. It has, according to a report on Oct. 6, offered to rebuild its plant for the city. Col. J. N. McArthur, Secy and Local Mgr.——There is some talk of erecting a municipal plant.

BLOOMINGTON, ILL.—Press reports state that the council is taking preliminary steps toward erecting a municipal plant.

STREETS AND ROADS.

BOSTON, MASS.—Bids are asked by the Massachusetts highway commission until Oct. 11 for constructing about 2,000 ft. of state highway in Worcester, and about 2,800 ft. in Blackstone.

BREWSTER, MASS.—Bids are asked by the board of selectmen until Oct. 15 for constructing about two miles of macadam road. Tully Crosby, Chn. Bd.

NEWTON, MASS.—The council is said to be considering the question of appropriating $11,000 for widening Washington St., at Newton, Lower Falls.

WEST HAVEN, CONN.—The council has appropriated $10,000 for repairing the highways in Orange, according to reports.

NEW ROCHELLE, N. Y.—C. S. Haskell, Cy. Engr., writes us that the following bids have been received for regulating and grading North St.: Wm. V. Molloy, $63,-250; F. W. Molloy, $27,100; Nassau Construction Co., $65,000; Briggs & McLaughlin, $47,000; Billew & Merritt, $49,390; C. H. Leitzens & Son, $52,000; Duffy & McCabe, $51,000.

BUFFALO, N. Y.—The committee on streets has decided to widen Carolina St. 4 ft.

NEW YORK, N. Y.—Bids are asked by the department of highways, 21 Park Row, until Oct. 19 for paving West 111th and East 134th Sts., Manhattan, with asphalt; Bedford Ave., Brooklyn, with asphalt block; Trossach Road, Richmond, with macadam; Twelfth Ave., Manhattan, with granite and for flagging 22d St, Queens.

SYRACUSE, N. Y.—The council will soon ask for bids for opening Croton St., 66 ft. wide. The city engineer has completed plans and specifications for the work. Jos. H. Saunders, Cy. Clk.

HAMMONTON, N. J.—J. C. Anderson, Clk., writes us that County Engineer J. J. Albertson has completed a survey of the proposed road from May's Landing to Pleasantville, and will report the estimated cost to the board at its meeting on Nov. 7.

NEWARK, N. J.—Bids are asked until Oct. 11 for paving Magazine St., requiring about 6,100 sq. yds. of granite block, 2,400 sq. ft. of new Belgian bridging, 1,200 ft. of 16-in. curb, and 3,600 ft. of old 16-in. curb reset. J. C. Mundy, Gen. Supt. Works.

NEW BRUNSWICK, N. J.—Bids are asked until Oct. 17 for 2,000 yds. of brick and 1,500 yds. of 12-in. Telford macadam paving. Ashler Atkinson, Cy. Engr.

PATERSON, N. J.—The commissioners are considering the question of improving the road from Mountain View to the Singac Road and also Union Ave.

PATERSON, N. J.—Bids are asked by the board of freeholders until Oct. 23 for macadamizing the Naachtpunck road and West 25th St. Edw. N. Kevitt, Dir. Bd.; Geo. W. Botbyl, Clk.

WILMINGTON, DEL.—The contract for building a dirt road at Silver Run is said to have been let to Patrick Fahey, at $12,000.

BALTIMORE, MD.—Maj. R. M. Venable has introduced a resolution providing for an issue of $1,000,000 in bonds for repaving streets.

WASHINGTON, D. C.—Bids are asked by the district commissioners until Oct. 27 for furnishing a quantity of granite curbing, as stated in our advertising columns.

BIRMINGHAM, ALA.—The council has passed an ordinance providing for the paving of Avenue K and 11th Ave. S., with brick, to cost about $35,000.

AKRON, O.—The contract for paving Summit St., with Wooster pressed block is said to have been let to P. T. McCourt, at $7,044.

CLEVELAND, O.—The county commissioners have been petitioned to improve the Kinsman road, at a cost of about $12,000, according to reports.

COLLINWOOD, O.—Bids are asked until Oct. 27 for grading, draining and slagging East Collamer St. L. A. Wilson, Village Clk., 66 Ferris St.

COLUMBUS, O.—The board of public works has received the following bids for repairing the asphalt on Broad St., (1) being for labor; (2) material; (3) total bid: Shaffer Roofing Co., 97 W. Long St., (1) $4,400, (2) $2,200, (3) $6,600; Warren-Scharf Asphalt Paving Co., Nasby Bldg., Toledo, (1) $1,987, (2) $5,742, (3) $7,639; Barber Asphalt Paving Co., 11 Broadway, New York, N. Y., (1) $1,860, (2) $4,340, (3) $6,200; Cleveland Trinidad Asphalt Co., (3) $7,099.

SOUTH BEND, IND.—Bids are asked until Oct. 22, for paving an alley 14 ft. wide with brick. L. A. Hull, Cy. Clk.

DETROIT, MICH.—The council is said to have decided to pave the following streets: Amsterdam St., with brick, to cost $3,276; Third Ave., with cedar, to cost $2,200; repaving Congress St., with cedar, to cost $2,500; repaving Field Ave., with cedar, to cost $2,000.

GRAND RAPIDS, MICH.—The following ordinances have been passed by the council: paving Canal St., with brick, to cost about $23,710, also for paving the alley between Ottawa and Ionia Sts. and for grading and paving New England Place.

SAULT STE. MARIE, MICH.—The council has decided to pave a portion of Portage Ave.

ROCKFORD, ILL.—Bids are asked by the board of local improvements until Oct. 18 for about 10,763 sq. yds. of asphalt, and 1,910 sq. yds. of brick pavement on 7th St., as stated in our advertising columns. E. W. Brown, Pres. Bd.

COUNCIL BLUFFS, IA.—Press reports state that the city engineer estimates the cost of paving Main St., at about $4,169.

ST. PAUL, MINN.—City Engineer Claussen has submitted the following estimates to the council for paving Wabash St., with brick, $14,057, with sandstone, $17,466, or asphalt, $17,806, for curbing and boulevarding with sandstone Sherburne Ave., at $18,974; for curbing and boulevarding with sandstone Aurora Ave., $18,530; for paving Eighth St., from Wabasha to Broadway, with brick, $7,962, sandstone or granite, $9,919, or asphalt, $10,250; between Robert St. and Broadway, with brick, $15,376, sandstone or granite, $19,167, or asphalt, $19,-546.

ST. JOSEPH, MO.—Bids are asked until Oct. 15 for paving Fourth St., with asphalt. J. R. Rackliffe, Cy. Engr.

OKLAHOMA CITY, OKLA. TER.—The council has been petitioned to pave several streets, and will at once order 20 blocks of paving to cost about $24,000.

GLENWOOD SPRINGS, COLO.—It is stated that the contract for building the Taylor state road, including three bridges, has been let to the Bullen Bridge Co., at $6,500. The contract for about ten miles of the road through the canyon of the Grand River, to cost about $20,000, will soon be let.

SEATTLE, WASH.—The council has passed an ordinance providing for the improvement of First Ave. South, to cost about $23,000. Bids will be asked in about two weeks, according to reports.

PORTLAND, ORE.—The contract for improving Mason St. is said to have been let to A. Mason at $2,094.

OAKLAND, CAL.—Charles T. Ott, Street Supt., writes us that notices of street work have been posted for grading, curbing and macadamizing Lester Ave.

WINNIPEG, MAN.—The council has decided to do the following street work: Asphalt Carlton St., to cost about $11,000, and macadamize the lane between Hargrave and Donald Sts., to cost about $2,120, and Spence St., to cost about $16,475. C. J. Brown, Cy. Clk.

MANUFACTURING PLANTS

FAIRFIELD, ME.—The plans and specifications for the new pulp mill at this place, to be built by the Somerset & Kennebec Co., have been completed. The plant will be used for the manufacture of pulp and electric power. The building will be of brick, 50 × 100 ft., two stories in height, and 12 wheels will be set in the waterway, four for the electric department and eight for the pulp department.

CALEDONIA, N. Y.—Reports state that H. E. Harkenberg, Sterling Parks, and Dr. J. A. Smith, representing the National Carbon Co. of Cleveland, O., have been looking over the marl beds in this vicinity with a view of establishing a cement plant with a capacity of 500 barrels a day.

NEW YORK, N. Y.—The Iroquois Salt Co. has been incorporated with $175,000 capital stock and will build a plant at Silver Lake. Walter B. Duffy, Rochester; A. E. Patton, Curwinsville, Pa., and Harry Gates, Buffalo, are interested.

ARLINGTON, N. J.—The following are the bids received by the Arlington Copper Co., J. H. Granbery, Engr., for constructing the mill and power house buildings for the company's plant: Snare & Triest, New York, N. Y., $27,-890; Cooper & Wigand, Newark, N. J., $18,975; Hay Foundry & Iron Works, Newark, N. J., $15,775; Milliken Bros., New York, N. Y., $15,980; American Bridge Co., New York, N. Y., $15,390; Structural Iron & Steel Co., Baltimore, Md., $15,200. The contract for the masonry work was let to Salmond Bros., Arlington, and the contract for excavation to Geo. Bayliss, North Arlington.

JERSEY CITY, N. J.—It is stated that the Alsen's American Portland Cement Works Co., recently organized, proposes to locate a cement works at West Camp on the Hudson. The company is capitalized at $2,200,000. Henrich Wessel, W. Willins and H. Wulf are interested.

LA GRANGE, PA.—The contract for building the Unity Cotton Mills has been awarded to Pike Bros, La Grange. The mill will have 10,000 spindles.

PITTSBURG, PA.—It is reported that Robt. Jenkins, Jr., Wm. Dickel, and C. B. Vastbinder have purchased 10,000 acres of timber land along the Redstone River in the Big Kanawha Valley, W. Va., and will build a shipbuilding plant at Hinton.

SCRANTON, PA.—R. A. Whiteside, Arch., Beaver Falls, informs us that bids are wanted at once for the buildings and equipment for the plant of the Pittsburg Hardware Mfg. Co. The buildings will cover about five acres, and will be of brick with stone foundation, having steel frame, slate roof and steam heat and electric light. Estimated cost, $175,000. Estimated cost of equipment, $50,000. All information in regard to the buildings, equipment, etc., should be addressed to Mr. Whiteside.

WILLIAMSPORT, PA.—The factory of J. E. Dayton & Co. was destroyed by fire Oct. 3. The loss is reported at $300,000.

RICHMOND, VA.—Reports state that the Virginia & North Carolina Wheel Works will in a few weeks be rebuilt. The plant was destroyed by fire several months ago. E. L. Brown, Gen. Mgr.

MILTON, N. C.—Reports state that a chair factory is to be located in this town. Subscriptions are now being taken. G. T. Hubbard, Pres.; J. A. Foster, Vice-Pres.; E. D. Winstead, Secy.

WAY CROSS, GA.—About $30,000 has already been subscribed toward the new knitting factory in this place. It will be necessary to have $40,000 before starting operations.

ALEXANDER CITY,, ALA.—At a recent meeting of the leading citizens of this place a 10,000-spindle cotton mill was organized, to be known as the Alexander City Cotton Mill, capitalized at $200,000. J. M. Lewis, Baltimore, and W. H. Pinckard, Birmingham, are interested.

HAMMOND, LA.—The directors of the Hammond Cotton Mill Co. have decided to discontinue all operations on the new mill at Hammond, until after the presidential election.

NEWPORT, KY.—Parties are anticipating erecting a new 15-ton ice plant in this city. Peter Youmans, Newport, may be addressed.

PORTER, IND.—Reports state that a glass factory is to be built here by the Chicago Stopper Co., 153 La Salle St., Chicago. The plant will cost about $35,000.

DETROIT, MICH.—Wallace Franklin, Mgr., Westinghouse, Church, Kerr & Co., Union Trust Bldg., Detroit, is reported as stating that in the event of the re-election of President McKinley a corporation will immediately award contract for a $400,000 factory to be located in this city. The site has been purchased and plans are now being prepared by Westinghouse, Church, Kerr & Co.

CHESTER, ILL.—W. C. Kennedy informs us that the following parts of equipment will be purchased for the new drop-forging plant to be established in this town: drop hammer, training presses, coke furnaces, lathes, shaper, die-sinking machinery, etc., estimated to cost $8,500. The buildings are already erected.

FOND DU LAC, WIS.—The mill and elevator of the Helmer Milling Co. were destroyed by fire Sept. 28; loss about $50,000.

MILWAUKEE, WIS.—It is reported that Cudahy Bros. will soon erect a glue factory in connection with their packing establishment. The factory will be 50 × 200 ft., three stories high, and will cost about $25,000.

BETHANY, MO.—M. McCallum, Bethany, writes us that he had secured a site for a canning factory at Alvin, Tex., on which work was to have been started Jan. 1, but the recent storm may delay the project for a year or more, as the orchards were badly damaged. It was the intention of Mr. McCallum of establishing a plant with a capacity of 20,000 cans a day.

SANTA CRUZ, CAL.—A committee of leading business men of this place has raised about two-thirds of the necessary bonus of $30,000 for the establishment of a new woolen mill.

MISCELLANEOUS CONTRACTS.

DREDGING.—Canandaigua, N. Y.—It is stated that the contract for dredging in Canandaigua Lake has been let to W. H. Welch at $7,831.

RETAINING WALL, ETC.—Toledo, O.—Bids are asked until Oct. 20 for constructing a retaining wall on St. Clair St. J. E. Connell, Cy. Clk.

CONSTRUCTING CRUISERS.—Washington, D. C.—Bids are asked until Dec. 7 for constructing six armored cruisers. John D. Long, Secy. Navy.

TUNNEL.—Fort Benton, Mont.—Bids are asked until Oct. 15 for constructing a tunnel through Shoukin Hill for a wagon road. Frank Sayre, Clk. Comrs.

PIER.—New York, N. Y.—The pier at the foot of Clarkson St., used by the Atlantic Transport Line, was recently destroyed by fire; loss, about $100,000.

LOCK.—Cincinnati, O.—Bids are asked until Nov. 1 for building lock No. 2 in the Big Sandy River, as stated in our advertising columns. Capt. H. F. Hodges, U. S. Engr.

CEMENT.—Montreal, Que.—Bids are asked until Oct. 13 for furnishing 25,000 barrels of Portland cement on the Lachine Canal. L. K. Jones, Secy., Dept. Rys. and Canals, Ottawa, Ont.

CANAL WORK.—Ottawa, Ont.—Bids are asked until Oct. 24 for deepening the lower entrance of the Sault Ste. Marie Canal. L. K. Jones, Secy., Dept. Rys. and Canals.

COAL HANDLING APPARATUS.—Newport, R. I.—Bids are asked until Oct. 17 for constructing a coal house and coal handling apparatus at Fort Adams, R. I. H. P. Young Constructing Q. M.

TELEPHONE LINE.—Racine, Wis.—J. C. Breese, Secy., writes us that the Citizens' Telephone Co., has let the contract for constructing its lines, to cost about $125,000, to Jones & Winter, Chicago, Ill.

STONE WALL.—San Francisco, Cal.—Bids are asked until Nov. 1 for constructing a stone wall along the southern boundary at the Presidio. Maj. Oscar F. Long, Q. M., U.S.V., 36 New Montgomery St.

VAULT.—Washington, D. C.—Bids are asked until Oct. 25 for extension of vault in the issue division of the office of the comptroller of currency, Treasury Dept. Jas. K. Taylor, Supv. Archt., Treasury Dept.

DAMS.—Fairmont, W. Va.—The contract for building dams on the Monongahela River between this city and Morgantown is said to have been let to Hingston, Phil & Cooper, 25 Coit Bldg., Buffalo, N. Y., at $624,607.

DREDGE.—Washington, D. C.—Reports state that the Atlantic, Gulf & Pacific Dredging Co., Park Row Bldg., New York, N. Y., will construct a new dredge to cost about $85,000, to replace the one recently lost off the capes.

SHORE PROTECTION.—Jamestown Island, Va.—Bids are asked until Nov. 9 for constructing shore protection here, as stated in our advertising columns. Lieut.-Col. Charles J. Allen, U. S. Engr., 905½ East Main St., Richmond.

CANAL.—Albany, N. Y.—The state canal board has directed the state engineer to make additional surveys for finding the cost of two routes from a given point to Rockford, to a point at Three River Point, for canal enlargement.

REVETMENT WALLS.—Columbus, O.—Bids are asked by the state board of public works until Oct. 25 for constructing two revetment walls along the canal and one towing path wall in Cincinnati. Charles E. Perkins, Ch. Engr.

TELEPHONE LINE.—Rosebud, Tex.—Wather H. Freeman, Mgr., writes us that the Southern Electric Light Co., will receive bids until about Nov. 1 for constructing a telephone line in connection with its electric plant at Narasota.

WHARF IMPROVEMENTS.—Providence, R. I.—It is stated that the New York, New Haven & Hartford R. R. will enlarge its coal wharf here and dredge to a depth of 25 ft., to cost about $200,000. F. S. Curtis, Ch. Engr., New Haven, Conn.

COAL AND ASH HANDLING APPARATUS.—Washington, D. C.—Bids are asked until Oct. 18 for constructing a coal and ash handling apparatus and coal crusher at the U. S. bureau of engraving and printing. Jas. K. Taylor, Supv. Arch., Treasury Dept.

TELEPHONE BONDS.—Paterson, N. J.—Bids are asked by the Paterson, Passaic & Suburban Telephone Co., until Oct. 13 for the purchase of $50,000 in bonds for extending the present plant and lines of the company. James W. Lindsey, Secy., 130 Market St.

PUMPING PLANT, ETC.—New York, N. Y.—Bids are asked by the department of correction, 148 East 20th St., until Oct. 18 for completing the installation of a complete high pressure steam plant in the work house and a complete pumping outfit for the stone quarry on Blackwell's Island.

REMOVING WRECK.—Detroit, Mich.—The following bids were received Oct. 2 for removing the wreck of the schooner "Fontana" in the St. Clair River by Lieut.-Col. G. J. Lydecker, U. S. Engr.: M. Sullivan, Detroit, $7,000; James Reid & Sons, Bay City, $8,000; Harris W. Baker, Detroit, $8,400.

STATE CANAL WORK.—Albany, N. Y.—Bids are asked until Oct. 19 for resetting the tide gates and rebuilding with sheet piling their foundations on the Shinnecock and Peconic Canal, as stated in our advertising columns. Plans and specifications on file at the office of Engineering News, 220 Broadway, New York; John N. Partridge, Supt. Pub. Wks.

STATE CANAL WORK.—Albany, N. Y.—We are informed that the following contracts for canal work were let Oct. 4 by John N. Partridge, Supt. Pub. Wks.: For improving Seneca Lake level on the Chemung Canal in Watkins, to Edw. J. Hingston, 25 Coit Bldg., Buffalo, at $3,400, and for building a vertical wall on Glens Falls feeder, to W. A. Burnham, of Glens Falls, at $6,969.

DREDGING.—Salt Lake City, Utah.—F. C. Kelsey, Cy. Engr., writes us that it is proposed to deepen and widen the Jordan River from Utah Lake to the Narrows, a distance of about ten miles, for the purpose of drawing off the water to a lower level. It will require about 1,000,000 cu. yds. of excavation. Bids will be asked in a few days for the first section and for the balance of the work as fast as surveys are completed.

FOREIGN CONTRACTS AND EXPORT NEWS

ELECTRIC TRAMWAY.—Brisbane, Queensland.—The Brisbane Tramway Co., Ltd., proposes to build extensions to its electric roads.

DWELLINGS, ETC.—Lima, Peru.—Ex-President Nicolas Piesola, Lima, has formed La Colmena, with a capital of about $240,000, to build dwelling houses, etc.

AMERICAN GOODS.—Alexandria, Egypt.—Reports state that Edgar Kirby & Co., of Alexandria, wishes to act as agent for a line of American manufactures in Egypt.

BRIDGES.—Manila, P. I.—Bids for a bridge in Santa Cruz were reported as being received in August by the U. S. engineers at Manila. Other bridges are also proposed.

DREDGING.—Newcastle-Upon-Tyne, Eng.—The River Tyne Improvement Commissioners have adopted a scheme to spend about $2,250,000 for dredging, etc. W. G. Laws, Cy. Engr.

RAILWAY.—Victoria.—The railway standing committee, Melbourne, Victoria, has decided in favor of the line to Mildura from Woomelang, via Mildura and Yelta, 124½ miles; estimated cost $1,325,000.

OIL PIPE LINE.—Baku District, Russia.—The Standard Oil Co., of New York, has applied for a concession for a pipe line to Constanza and to the Danube River, as well as the construction of the necessary works, etc.

PIER AND HARBOR WORK.—Newcastle, County Down, Eng.—Bids are asked until Nov. 1 for reconstructing and extending the pier and harbor. Fee for specifications $5. Robt. MacIlwaine, Secy. County Council.

RAILWAY.—Bolivia.—Mariano Bustamente, Civil Engr., La Paz, it is stated, will soon report on the proposed railway to unite a port on Lake Titicaca with La Paz. The line will pass through a rich agricultural and mining region.

RAILWAY.—Chilecito, Argentina.—We are informed that estimates are wanted by the Office National du Commerce Exterieur, 3 rue Feydau, Paris, France, for building a funicular railway between Chilecito, La Mejicana and Jamatina, Riojo.

HARBOR WORKS.—Bari, Italy.—The pier at Via Pizzoli is to be extended at a cost of $25,000. The wharf at the custom house will be widened at a cost of $25,000, and a branch railway will be built. Nicholas Schuck, U. S. Consular Agent, Bari.

DRY-DOCK.—Dar-es-Salaam, German East Africa.—A dry-dock to contain a ship of 2,000 tons is being built at a cost of about $150,000. It is stated that next year the dock will probably be enlarged to hold a boat of 3,200 tons and 6½ meters deep.

WATER SUPPLY.—Modena, Italy.—Reports state that the city will award a prize of $1,000 for the best plan for furnishing this city with a water supply and water-works. Pop., 70,000. C. A. Pio Vecchi, Secy. Chamber of Commerce, may be addressed.

SUGAR REFINERY.—Tainan, Formosa, Japan.—A company is reported to be contemplating the construction of a sugar refinery to cost about $250,000. The Formosa government is to grant a subsidy of about $6,000 this year, with further subsidies later on.

TRAMWAY MATERIAL.—Glasgow, Scotland.—Bids are asked until Oct. 23 for furnishing 1,000, 2,000 or 3,000 tons steel straight-track rails; 100, 200 or 300 tons steel curved rails; 50, 100 or 150 tons steel fishplates. John Young, Gen. Mgr., 88 Renfield St., Glasgow.

BELTING, CEMENT, NAILS, ETC.—Turah, Egypt.—Bids are asked until Nov. 8 by the Financial Secretary, War Office, Cairo, Egypt, for furnishing 3,000 ft. of English belting, and until Nov. 10 for timber, nails, cement and glue for the war department stores, Turah.

REPAIRING RAILWAY.—Manchuria.—The Minister of the Interior, St. Petersburg, Russia, is reported to have ordered that immediate repairs be made to the 400 miles of the Manchurian State Ry., recently destroyed by the Chinese. L. F. Horval, Dir., Vladivostock, Siberia.

HARBOR WORK.—Cape Colony, So. Africa.—The government of Cape Colony is considering a bill authorizing the raising of a loan of about $6,850,000 for improving the harbors at Table Bay, to cost about $5,250,000; Port Elizabeth to cost about $650,000, East London and Mossel Bay.

TOWN HALL, ETC.—Cardiff, Wales.—E. Turner & Sons, Cardiff, have been awarded the contract, at about $648,525, for building the new town hall, and at about $500,000 for the law courts. Lanchester, Stewart & Rickards, Archs., 1 Vernon Place, Bloomsbury Circus, London, W.C.

RAILWAY.—Hermosillo, Mex.—Reports state that the Cananea Consolidated Copper Co. has been granted a concession to build a railway from Naeo, on the border line between Mexico and the United States, to La Cananea, Sonora. It is understood that materials will be wanted in December.

STREET RAILWAYS.—Berlin, Germany.—In conformity with the wish of Emperor William, the Prussian Cabinet recently forbade the further use of the accumulator system upon the street railroads in Berlin, at the same time prolonging the charter of the Berlin St. Ry. Co. from 1919 to 1949, but without consulting the Berlin municipal authorities.

IRRIGATION WORKS.—Thessaly, Greece.—The government has appointed a commission to make investigations as to building irrigation works in Thessaly. The commission is authorized to invite foreign engineers to assist in the investigation. Daniel E. McGinley is the U. S. consul at Athens, Greece.

GOLD MINING.—Soudan, Egypt.—Dr. Linck, Prof. of Geology, University of Jena, Jena, Austria, is reported to have made a report in favor of working certain gold mines in the district known as the South Kordofan, Soudan. A company will be formed to work the mines. Sir R. C. Slatin Pacha, Inspector-Gen. of the Soudan, Cairo, is said to be interested.

IRRIGATION SYSTEMS.—Spain.—The government is considering the question of establishing general irrigation systems in the valleys of the Rivers Ebro, Tajo, Guadalquivir, Quadiana and others. It is expected that the plans will be completed by Dec. 31. J. G. Lay, U. S. Consul-General at Barcelona; J. H. Carroll, U. S. Consul at Cadiz; Dwight T. Reed, U. S. Vice-Consul at Madrid.

WATER AND SEWERAGE BONDS.—Melbourne, Victoria.—Bids were received Sept. 17 for the purchase of $1,750,000 of 3½% 33-year bonds, the proceeds to be used for improving the water-works and sewerage system. This completes the $25,000,000 authorized loan. E. G. FitzGibbon, Chn. Melbourne and Metropolitan Bd. of Wks., 501 Collins St., Melbourne; G. A. Gibbs, Secy.

ELECTRIC RAILWAY.—Rotterdam, Holland.—We are informed that work on an electric railway between Rotterdam, La Haye and Scheveninge will soon be started by Zuid-Hollansche-Electrische Spoorweg Maatschapy, to be completed by September, 1903. Capital, $1,200,000. The cost is estimated at $3,000,000. The entire equipment and construction has been given to Siemens & Halske, Berlin.

ELECTRIC PLANT, ETC.—London, Eng.—Bids are asked until Oct. 16 for furnishing an electrical plant with a 500-K-W. generator, for furnishing power from a water fall to a factory three miles distant, a complete hydraulic installation required to develop about 500 HP. from a waterfall 620 ft. high, and for furnishing railway buffers, etc., all for use in India. E. G. Burls, Dir.-Gen. of Stores, India Office, Whitehall St., London, S. W.

ELECTRIC PLANTS.—Rosario, Argentina.—The court has ordered the River Platte Electric Light & Traction Co., Ltd., London, Eng., to improve its plant by installing more modern apparatus, posts, wire, etc. The work must be completed in six months from September. There are about 300 street lights.——Frank R. Cassels is said to have been awarded the contract for an electric light plant. He will also build an electric railway to Matadero.

ELECTRIC PLANTS.—France.—We are informed that the Societe Anonyme d'Electricite de la Neste a Bruxelles has been formed to build electric plants and distribute water in Montrejean, Gourdan, Huos and Ausson (France), and other places. The capital is $60,000 for a period of 30 years. The business is to be extended in Belgium and France. The Administrateur Delegue of the company will be Marquis de Tauriac, Chateau de Restes (Haute Garonne), France.

CANAL, ETC.—Argentina.—The Riachuelo Canalizadora Co., it is stated, will soon complete plans for the proposed canal.——The Franciscan Missionaries of the Merced College of Corrientes, will build a village in Formosa Territory.——The Central Argentine Ry. Co. has purchased the Western of Santa Fe R. R., and proposes to improve the line at once. H. H. Loveday, Gen Mgr., Rosario, Argentine; Sir D. Fox, Consult. Engr., 28 Victoria St., London, S. W.

BRICKYARDS, ETC.—Brussels, Belgium.—We are informed that the Societe Anonyme Belge d'installation briquetiere a Bruxelles has been formed with a capital of $20,000, to build brickfields and similar industries in Belgium, Russia and other countries. The promoter of this is Mr. Ratmanoff, 13 Rue de Loxum, Brussels. Brick manufacturing is imporfectly developed in Russia, being mostly hand work. The walls in buildings must be at least 4 ft. thick.

MINING MACHINERY, ETC.—Osaka, Japan.—Reports state that M. Tanabi, of Sumitomo & Co., Osaka, Japan, mine owners, was at the Waldorf-Astoria, New York, last week, being in New York to investigate mining machinery. J. Matsumato, Pres. Sanyo R. R. Co., Hyogo, Japan, is visiting cities in the United States investigating railway appliances. This company had early in the year about 65 miles of 3 ft. 6-in. gage line under construction. K. Minami, Consult. Engr., Hyogo.

ELECTRIC LIGHTING.—Spain.—Bids are asked by the municipal council, Callosa de Ensarria (Alicante), until Oct. 12 for the purchase of a concession for electric lighting for 50 years; by the council of Velez Blance (Almeria), until Oct. 15 for the concession for electric lighting, and by the municpal council of Palma until Oct. 30 for electric lighting for 20 years from Jan. 1, 1902. Bids were received by the council of Poquelo (Albacete), Oct. 7 for a 40-year electric lighting concession.

RAILROAD.—Guatemala.—Snyder, Barthel & Co., New Orleans, La., are said to have been awarded the contract for completing the Guatemala Northern Ry., from El Rancho to Guatemala City, the contract having been let by the Central American Improvement Co., of New Orleans, noted in our issue of last week. The line will be 56 miles long and will cost over $3,000,000. Minor C. Keith, Pres. C. Am. Improvement Co., New Orleans; Miller A. Smith, Ch. Engr., Puerto Barrios, Guatemala.

PUBLIC WORKS.—France.—Bids are asked by the Chemins de fer de l'Etat, 42 rue Chateaudun, Paris, until Oct. 18 for a landing stage to cost $25,000.——A tower at Monmartre, Paris, to cost about $600,000, is proposed by M. Sebilot.——The Orleans Gas Co., Orleans, has been granted a 30-year concession for electric lighting.——Bids are asked by the mayor of Labruyere (Tarn) until Dec. 15 for electric lighting.——Bids are asked by the provincial administration, Groninque, Holland, until Oct. 23 for two elevators to cost $3,100.

QUAY, ETC.—Saigon, Cochin-China.—We are informed that the French government proposes to build at once a quay to be 3,600 ft. long; depth of water 39½ ft., docks 2,310 ft. long and 82½ ft. wide and a railway bridge 2,970 ft. long on the Arroyo. In our issue of Sept. 27 we stated that bids were wanted until Nov. 9 for ballast works and laying of rails, until Nov. 16 for the materials and until Dec. 15 for the bridges for the proposed railways in Cochin-China to cost about $40,000,000. Address the Bureau of Inspector General, Minister of the Colonies, Paris.

LOCOMOTIVES, CARS, ETC.—France.—Les Chemins de fer de l'Etat Francais, 42 rue de Chateaudun, Paris, will soon let contracts for a large amount of rolling stock. M. Desdouits, Ch. Engr. Rolling Stock, 136 Boulevard Raspail, Paris.——The Eastern Ry. Co., 21 due d'Alsace, Paris, will also, it is reported, soon let contracts for a number of locomotives and tenders. L. Salomon, Ch. Engr. Rolling Stock, 168 rue La Fayette, Paris.——Another company has just let a contract to a German firm for 20 engines, the French companies being crowded with orders.

MINING.—Russia.—B. F. Brandt, an economic expert, recently employed by the Russian Ministry of Finance, St. Petersburg, to investigate and report on the empire's natural resources, has recommended that the government give up its mining system in the Ural district to private companies, who would improve and extend the systems. The Ural district is rich in metals and coal. Already a large number of foreign promoters have begun the erection of furnaces and foundries. Belgium almost monopolizes the mining enterprises which foreigners own and operate in Russia.

ELECTRIC RAILWAY.—Colombo, Ceylon.—Sir J. West Ridgeway, Governor of Ceylon, Colombo, has reported in favor of changing the Uda Pussellawa Ry. from steam to electric traction. Power could be secured from the water falls between Nanu-oya and Uda Pussellawa. The present grades are heavy, but another route to do away with the heaviest grade has been recommended. The consulting engineers, Gregory, Eyles & Waring, 2 Delahay St., London, N. W., however, do not recommend the change on account of the lack of sufficient traffic. W. T. Pearce, Gen. Mgr., Colombo.

ELECTRIC TRACTION.—Liverpool, Eng.—A report has been sumbitted to the Mersey Ry. Co. in favor of adopting electric traction on its line of over four miles, which includes a tunnel under the river to Birkenhead. It is suggested that a joint line be built by the Mersey company and the Wirral Ry. Co., which has about 13¼ miles of road, at a cost of about $2,500,000. Should the Mersey company equip only its own line the cost will be about $1,500,000. Herbert Wood, Engr. and Locomotive Supt. Mersey Ry. Co., Central Station, Birkenhead; E. S. Wilcox, Engr. Wirral Ry. Co., New Brighton, Eng.

RAILWAY SUPPLIES.—Ecuador.—We are informed that contracts are being let by the J. P. McDonald Co., contractors, 35 Nassau St., New York, for the supplies for building the Guayaquil & Quito R. R., including locomotives, equipment, etc. The road will be about 300 miles long, as stated in our issues of July 12 and 19. The greater amount of contracts for supplies, equipment, etc., has yet to be let. A report states that the contractors have just secured the first lot of 1,000 of the 5,000 Jamaican laborers for work on the line. They are engaged for two years' service, receiving 60 cts. a day, free lodging, hospital and medical attendance.

ELECTRICAL APPARATUS.—Coburg, Germany.—U. S. Consul Hughes, at Coburg, reports that in that part of the country around Coburg considerable attention is being paid to electrical appliances that can be used on the farm. Near Ochsenfurt, in Bavaria, a company composed of land-owners and small farmers has been organized for the establishment of an electrical system for use on their farms and in villages. The power is to be generated by steam and water and the current to be distributed from a central station to the places at which it is wanted. Substations are to be established at given points, with the necessary apparatus for connecting with the farm or other machinery and also for lighting purposes in the houses, offices, roads, and village streets.

RAILWAY.—Brazil.—E. H. Moulton, U. S. Consul at Demerara, British Guiana, has submitted a report urging the construction of a railway either from Bartica, at the head of navigation 50 miles up the Essequibo River, or Georgetown (Demerara) to Manaos (Barra) the capital of the state of Amazonas, Brazil, about 700 miles, of which about 375 miles would be in British Guiana and the rest in Brazil. The river and harbor facilities for such a line are considered very favorable. About 4,870 miles of navigable river converge at Manaos, including the Amazon and Negro Rivers. The road would pass through a rich mineral and forest region. Such a line would shorten the distance for freight, etc., from Bolivia, Peru, Ecuador and Columbia from 4,345 miles, about 17 days, to 3,100 miles, 11 days.

SEWERS AND WATER SUPPLY, ETC.—Tampico, Mex.—An English company is making surveys for a sewerage system and water-works. The British Vice-Consul reports that there are several good openings for plumbers in Tampico.——The British Vice-Consul at Monterey reports that in his district there is a steadily increasing demand for good steel hoes (azadones), octagonal steel bars, steel shovels, steel cables, steel rails, electric and telegraph wires, firebrick, cast-iron pipes, Portland and Roman cement, carbide for the manufacture of acetylene gas, barb-wire fencing, typewriters, leather belting, paints (dry and ready mixed), hand and steam pumps, caustic soda, china and porcelain ware, windmills, chemical preparations, horseshoes, etc.

TELEPHONE LINES, ETC.—Sydney, N.S.W.—Reports state that the postmaster-general, Melbourne, Victoria, is asking for bids for a telephone line from Melbourne to Sydney. Other important telephone lines are proposed by New South Wales, Victoria, South Australia and Queensland. Wyncham J. Davies, Chf. Inspector and Supt. of Mails, and the Postal-Electrical Telegraph System of New South Wales, is visiting in the United States. His trip to this country is an official one for the purpose of giving him an opportunity of acquainting himself with the postal system in this country, and more particularly with the working of the railway mail service. Edge & Edge, Sydney, have the contract at $32,500 for a pneumatic tube system between the general and the exchange postoffices.

SANTIAGO, CHILI.—The department of public works has commissioned Carlos Soza Bruna, Civil Engr., to visit Europe to study the latest engineering methods, machinery, etc. Prof. Ernesto Rethwisch, of Tacna, Chili, has been directed by the department of public instruction to visit Europe to investigate the organization and workings of chemical laboratories, as well as appliances and methods in use in European institutions in the teaching of chemistry and physics. Maximo Dorihaic, Prof. Mechanics and Locomotive Construction in the School of Industrial Arts, has been directed to visit Europe to examine systems and methods of teaching mechanical engineering. Justiano Sotomayor, of the department of industry and public works, will visit Italy to report on the electrical iron foundry at Brescia, and to report on the feasibility of using this method in Chili. Lieut. H. P. McIntosh, U. S. A., formerly a professor in De Pauw University, Greencastle, Ind., has been engaged by the government, by the consent of the United States government, to superintend the construction of a navy for the Chilian government.

SHIPBUILDING WORKS.—Barcelona, Spain.—J. F. Villalta, importer and commission merchant, 7 and 9 Puertaferrisa, Barcelona, wants bids from American firms for furnishing about $500,000 worth of machinery, supplies, etc., for a new shipbuilding and repairing plant, which he has the commission to build. The shipbuilding company has a capital of about $6,000,000. It is also stated by the "American Machinist" that Mr. Villalta is in the market for eight and 10-ft. boring and turning mills, horizontal floor-boring, drilling and turning mills, six-spindle multiple drills (circular style), universal milling machines, profiling machines, steam and drop hammers, water emery grinders, modern machinery for blast furnaces, rolling and drawing mills. In addition to his machinery business Mr. Villalta is anxious to receive quotations on American coal and to let a contract for 15,000 to 20,000 tons as a trial order. The price must be f. o. b. Barcelona, and time of delivery and terms of sale must be stated. In order to save time a "pro forma" contract and invoice is requested. As the coal business is very urgent Mr. Villalta thinks it would be well if interested concerns would wire immediately the price per 1,000 tons f. o. b. Barcelona, naming quantity that can be shipped monthly.

RAILWAY WORK.—Russia.—The government has ordered the following work: The enlargement of the goods station of the Warsaw line at St. Petersburg, and the construction of a branch line connecting the station with the port; the enlargement of the stations at Novotorjok and Vyschni-Volotchok, and for the construction of a branch at Volkovo of the Nicolas Ry. connecting with the port; the enlargement of the Uxkul and Kurtenhof stations, and the improvement of the water supply at the Romershof and Oger stations on the Riga-Orel Ry., and for the construction of dwellings at the six crossings on the Mitan branch of the same line; the construction of the Nijni-Krynsk branch of the Catherine Ry.; the establishment of a food depot near the Kozlow station of the Riasan Uralsk Ry.; the extension of the Poltava-Constantinograd branch of the Kharkov-Nicolaieff Ry. to connect with the Koursk-Kharkov-Sevastopol Ry. at Lozovaix station; the construction of a junction line round the town of Taganrog, the enlargement of Martsevo station, and the installation of water supply at Verkhnedneprovsk station on the Catherine Ry., and the execution of supplementary works on the railways of the south and southwest. C. Kokowzeff, Engr. Material Dept. State Rys., St. Petersburg; L. Wojno, Ch. Running Dept., Warsaw-Vienna Ry., Warsaw; P. Micholzev, Gen. Mgr. Nicolas-Ostachkovo Ry., St. Petersburg; B. Kokowzeff, Gen. Mgr. Riga-Orel Ry., Riga, Russia; A. Verchovtjev, Gen. Mgr. Catherine Ry., at Yecaterinoslav; D. Kandaouroff, Gen. Mgr. Riasan-Urals Ry., St. Petersburg; N. Renkoul, Gen. Mgr. Koursk-Sevastopol Ry., Charkov, Russia.

PORT WORKS.—Montevideo, Uruguay.—A. W. Swalm, U. S. Consul at Montevideo, reports on Aug. 22, as follows regarding the new port works, bids for which were opened by the Minister of Fomento, Aug. 21: Sir John Jackson, Ltd., 3 Victoria St., Westminster, London, Eng., bids $12,352,764, without modifications, and $12,630,310, making some changes in the proposed plans. He also offers to issue bonds for $7,299,750, in accordance with the government, in case his company should be selected to undertake the works, to cover the payment of the same. Walker & Co., Cayo 454, Buenos Aires, Argentina, bid $12,218,617, cash and gold. Pearson & Co., 10 Victoria St., S. W., London, bid $14,867,326, and would make a deduction in case the proposed works should be diminished. Schneider & Co., Fourgerolles, Bord & Co., and Société Marseilleise presented prices only for different parts of the works, and it would require much figuring to arrive at the total. Allard, Coiseau, Couvreux, Duparchy, Dollfus & Viriot, Paris, contractors, offer to the state a deduction of ½ of 1% on the Guerard proposition, and states that it would accept bonds in payment of the works, on conditions to be determined by the government. The Guerard estimates are $11,220,000. It is altogether probable that this French firm will be given the contract. It may be added that this carries to the French market the demand for machinery necessary for the work, an item of about $2,000,000, which, it was hoped, might have found its way into American channels. The final decision as to the acceptance of the bid will be made in about two months from date. Adolfo Guerard, Ch. Engr., Port Works, Montevideo.

CONTRACT PRICES.

BELGIAN BLOCK PAVING.—Camden, N. J.—W. H. Sherman has been awarded the contract, at $1.39 and $1.42 a sq. yd. for Belgian block paving in four streets.

ASPHALT PAVING.—Hoboken, N.J.—The following bids were received Sept. 26, 1900, for asphalt paving in ten streets, and for laying asphalt strips in certain streets; Tivy & Smith, Engrs., Hoboken Bank for Savings Bldg.:

Quantities.	Barber Asp. Pav. Co., New York.	Utica Pav'g Co., Utica, N. Y.
Asphalt paving, a sq. yd.	$2.10	$2.03
Block repaving, a sq. yd.	.30	.32
Curb reset, a lin. ft.	.06	.07
Total	$212,007	$208,016

WATER SUPPLY TUNNEL.—Cincinnati, O.—The following bids were received Oct. 2 for extending the tunnel to convey water from the filtering plant of the new works at California to the pumping station in Cincinnati; part of this tunnel, 7,100 ft., being under contract to W. J. Gawne & Co., foot of Kirkland Ave., Cleveland, O., at $398,165; the rolled material calls for 10,000 ton-miles; (1) bid of W. J. Gawne & Co., (2) F. H. Kirchner & Co., (3) Henkel & Sullivan, (4) Walton, Millett & Co.; all but No. 1 local bidders; Chas. G. Roth, Clk. Bd. Trustees, Comrs. of Water-Works; Aug. Herrmann, Pres.:

	1.	2.	3.	4.
Shaft No. 5:				
Upper portion, 30 ft.	$145.00	$200.00	$50.00	$80.00
Interm. portn. 131 "	300.00	226.00	150.00	200.00
Lower portion, 39 "	150.00	70.00	125.00	150.00
Shaft No. 4:				
Working, complete	24,000	29,500	15,500	20,000
No. 3, workg complete	24,000	29,500	15,500	20,000
Tunnel .....15,150 ft.	36.20	42.00	50.00	38.00
Steel hoops ..33,000 lbs.	.10	.08	.05	.10
Rolling excav., material	1.00	.20	.20	.25
Total	$659,230	$738,276	$818.175	$655,950

ASPHALT PAVING.—Cincinnati, O.—The following bids were received Sept. 26, by the board of public service for asphalt paving in Eastern Ave.; contract awarded Warren Quinlan; J. D. Harris, Asst. Engr.:

Bids Received at Cincinnati, O., Sept. 26, 1900, for Asphalt Paving in Eastern Ave.

Quantities.		Warren Quinlan, Syracuse, N. Y.	Barber Asp. Pvg Co., New York.	D. Folz Asp. Pvg. Co., Cincinnati, O.	Trinidad Asp. Pvg. Co., Cincinnati, O.	Wrn-Schrl Asp. Pvg. Co., Cincinnati, O.
Broken stone	600 cu. yds.	$1.00	$1.25	$1.25	$1.40	$1.50
Concrete	200 " "	3.10	2.90	2.75	2.50	3.00
6-in. coping	1,200 sq. ft.	.50	.35	.36	.25	.30
Curbs B. lines	10,375 lin. ft.	.55	.59	.60	.60	.55
Curbs B. circular	210 " "	1.00	1.05	1.10	1.00	.95
24-in. drain pipe	150 " "	2.00	1.50	1.40	1.50	1.25
18-in. " "	500 " "	1.10	.85	.85	.75	1.00
15-in. " "	750 " "	.80	.40	.45	.35	.50
12-in. " "	3,700 " "	.60	.25	.32	.30	.27
4-in. " "	5,000 " "	.08	.09	.10	.10	.10
Grading	24,000 cu. yds.	.30	.20	.24	.25	.23
Vitrified brick samonry	60 cu. yds.	10.00	11.00	10.00	10.00	9.00
Brick masonry	210 " "	6.00	8.00	10.00	9.00	8.50
Rubble masonry	500 " "	4.00	4.00	3.75	3.50	3.50
Paving with asphalt	23,111 sq. yds.	1.97	2.30	2.23	2.25	2.31
Gravel	50 cu. yds.	1.50	.80	.75	1.00	1.00
Drip stone	180 lin. ft.	.80	.80	.75	.75	.75
Castings	30,000 lbs.	.03	.03	.03	.02½	.02½
Curb reset	50 lin. ft.	.10	.10	.15	.10	.15
Granite paving	30 sq. yds.	4.00	2.75	3.00	3.00	3.00
Granite reset	20 " "	1.50	.50	.75	.50	.75
Total		$69,849	$73,894	$73,962	$73,827	$74,356

WATER-WORKS SUPPLIES.—New York, N. Y.—The following bids were received Oct. 4, 1900, for water department supplies; (1) being for 500 tons straight pipe, (2) 150 tons branch pipe, (3) 24-in. stop-cocks, inside screw, (4) 350 single-nozzle hydrants: John Fox & Co. (1) $21.80, (2) $40, (3) $41.65, (4) $28.00; M. J. Drummond & Co. (1) $20.80, (2) $42; Warren Foundry & Machine Co., (1) $20.90, (2) $42; U. S. Cast-Iron Pipe & Foundry Co. (1) $20.70, (2) $45; Camden Iron Works (1) $20.88, (2) $41.75; Kennedy Valve Mfg. Co. (3) $39.85, (4) $25.96; Cayuta Wheel & Foundry Co., (3) $48, (4) $28. Bids for stop-cocks, double-nozzle N. Y. case hydrants, etc., are as follows; (1) S. N. Leary, (2) Kennedy Valve Mfg. Co., (3) John Fox & Co.:

		1.	2.	3.
Double-nozzle hydrants	....200 each	$53.00	$52.75	$56.00
12-in. stop-c'ks, inside screw	50 "	80.00	39.85	41.65
6-in. stop-c'ks, inside screw	100 "	11.00	11.25	10.75
Iron stop-cock boxs & cvrs.	150 "	12.00	12.35	12.85
Manhole heads and covers	10 "	11.00	8.10	8.60

WATER PIPE, ETC.—Hoboken, N. J.—The following bids were received by the water commissioners Oct. 2, 1900, for furnishing water pipe, gates, etc.: American Car & Foundry Co., of Berwick, Pa., 35 tons 12-in. pipe, $22.25 a ton; 6-in. pipe at $23.50 a ton; R. D. Wood & Co., Philadelphia, 12-in. pipe, $29.50 a ton; Eley Co., Bayonne, N. J., 12-in. pipe, $24.50 a ton; 6-in., $23.50; Rensselaer Mfg. Co., Troy, N. Y., five hydrants, at $24 to $30 each, and gates $29.50 each; U. S. Cast Iron Pipe & Foundry Co., Philadephlia, 10-in. pipe or in. pipe, $20.90 a ton; 6-in. pipe, $21.40; John Fox & Co., New York, 12 or 6-in. pipe, $23.50 per gross ton; hydrants, $22 each; M. J. Drummond & Co., New York, 12-in. pipe, $23.25 a ton; 6-in. pipe, $24.25 a ton; Williamsport Valve & Hydrant Co., Williamsport, Pa., valves, $28 each.

LAMPPOSTS.—Duluth, Minn.—Maj. Clinton B. Sears, U. S. Engr., received the following bids Oct. 1, 1900, for furnishing (1) 98 lampposts with equipment, etc., each, and (2) two dozen glass globes, per dozen, delivered at U. S. warehouse, Duluth; all bids were rejected: Whitehead & Kales, Detroit, Mich., (1) $83.50, (2) $24, total $8,231; Crown Iron Works Co., Minneapolis, Minn., (1) $66.48, (2) $24.50, total $6,564; Ellicott Machine Co., Baltimore, Md., (1) $67.50, (2) $18, total $6,651; Burgess Electric Co., Duluth, Minn., (1) $6,648, total, (2) $20, total $6,688.

RAILROAD SUPPLIES.—Washington, D. C.—The following bids were received by the Interior Department Oct. 2, 1900, for certain railway supplies at the government hospital for the insane, (1) for excavating, (2) for concrete, (3) for steel rails, (4) for ballast, (5) for spikes, (6) for drain pipes, (7) for ties: R. A. Malone, Lancaster, Pa., (1) 29 cts., (2) $8, (3) $33, (4) $1.50, (5) $2.75, (6) 50 cts., 75 cts. and $1, (7) 80 cts.; total, $18,400; Brennan Construction Co., Washington, (1) 35 cts., (2) $10.75, (3) $32, (4) 70 cts., (5) $3, (6) 50 cts., 75 cts. and $1, (7) 55 cts.; total, $18,900.

WOODEN BRIDGE.—Sidney, Neb.—Sheely & O'Shea, Lincoln, Neb., have been awarded the contract, at $2.70 a lin. ft., for building a wooden wagon bridge over the North Platte River, near Bridgeport. The bridge will be 2,040 ft. long with three piles of Oregon fir and red cedar, 2-in. oak floor, 12-ft. roadway, and a 20-ft. turn-out in the center. The contractors have 90 days in which to complete it.

WATER PIPE.—Washington, D. C.—The following bids were received Oct. 3, 1900, for furnishing 60,000 ft. of 6-in. cast-iron water pipe, about 800 tons; W. A. McFarland, Supt. Water Dept: U. S. Cast-Iron Pipe & Foundry Co., Philadelphia, $23.40 a ton; M. J. Drummond & Co., 192 Broadway, New York, $23.70; Camden Iron Works, 400 Chestnut St., Philadelphia, $23.88.

REMOVING ROCK.—Christiana River, Del.—The U. S. Engineers received the following bids Oct. 4, 1900, for removing rock from the Christiana River: John J. Fitzpatrick, Plattsburg, N. Y., $10.99 a cu. yd.; T. H. Lyons, Washington, D. C., $11.77.

DREDGING.—Cumberland Sound, Ga. and Fla.—P. Goodyear, Brunswick, Ga., has been awarded the contract for 55,000 yds. of dredging in the Cumberland Sound, Ga. and Fla., at 16 cts. a cu. yd. P. Sanford Ross, Inc., Jersey City, N. J., submitted the only other bid, Sept. 17, 1900, at 70 cts. a cu. yd.

WATER PIPE.—Boulder, Colo.—R. D. Wood & Co., Philadelphia, who were awarded the contract Sept. 20, 1900, at $27.35 a ton f. o. b. cars at Boulder, for water pipe, have declined to accept the contract. Hendrie & Bolthoff, Denver, the next lowest bidders, at $30.50 a ton, were awarded the contract; total, $12,200.

DREDGING.—Savannah, Ga.—The following bids were received Sept. 14, 1900, by the U. S. Engineers for 200,000 yds. of dredging in Savannah Harbor: Geo. T. Warner, Savannah, 12.4 cts. a cu. yd.; P. Sanford Ross, Inc., Jersey City, N. J., 18.7 cts.; Rittenhouse R. Moore, Savannah, 15.5 cts.; Geo. H. Eldridge, Sing Sing, N. Y., 16⅔ cts.

BRICK PAVING.—Lancaster, O.—The following bids were received Sept. 21, 1900, for brick paving in North High St.: Stahl & Justus—Curb, material, 13 cts.; labor, 14 cts. a ft.; excavation, material 10 cts., labor 15 cts. a yd.; No. 1 Buckley block, material 59 cts., labor 27 cts.; Logan block, 59 and 27 cts., respectively; Harris block No. 1, 56 and 27 cts.; Harris block No. 2, 50 and 27 cts.; resetting curbs, 15 and 15 cts.; sand filling, 1 ct. and 1 ct.; Fricker & Clover—Curbs, material 10 cts., labor 12 cts.; excavating, labor 20 cts.; Harris block, 55¾ and 21 cts., respectively; Logan block, 60 and 21 cts.; block, 59 and 21 cts.; limestone backing, 20 and 10 cts.; resetting curbs, labor 10 cts.

ASPHALT PAVING.—Albany, N. Y.—The following bids were received Oct. 1, 1900, for 48,280 yds. of asphalt paving in Madison Ave., $70,000 being available: Warner & Quinlan, Syracuse, $1.34, 38 days; Barber Asphalt Paving Co., New York, $2.03, 35 days; Pennsylvania Asphalt Co., Philadelphia, $2.11, 65 days; Metropolitan Asphalt Co., New York, $217, 70 days.

INCANDESCENT LAMPS.—New London, Conn.—Maj. Smith S. Leach, U. S. Engr., received the following bids Sept. 29, 1900, for furnishing 250 incandescent lamps: Shelby Electric Co., Shelby, O. (accepted), $45, alternative tipped, $42.50; Central Electric Co., Chicago, $45, tipped; The Burnet Co., New York, $50, delivery Oct. 15, tipped; C. S. Knowles, Boston, $39.50, Oct. 15, tipped, anchored; General Incandescent Arc Light Co., New York, $48.50, 20 days, alternative tipped, $43.75; T. C. Gill, Philadelphia, $110, Nov. 10, anchored; Naval Electric Co., New York, $49, Oct. 21, alternative tipped, $44.

INDUSTRIAL NOTES.

THE NEW ENGLAND STRUCTURAL CO., Boston, Mass., has received the contract for a plate-girder bridge at Freeman's Creek, for the Maine Central R. R. Co.

THE COOK LOCOMOTIVE WORKS, Paterson, N. J., is said to have been awarded the contract to furnish the Southern Pacific Ry. Co. with 80 passenger and mogul engines.

THE BUFF & BUFF MFG. CO., manufacturers of engineering and surveying instruments, Boston, Mass., has awarded the contract to John P. Campbell, Builder and Contractor, Boston, for the new building at Jamaica Plain, Mass.

THE CAROLINA PORTLAND CEMENT CO., East Ray and Cumberland Sts., Charleston, S. C., has been awarded a contract for about 15,000 bbls. of cement to be used in the construction of the electrical power dam in the Catawba River near Rock Hill, and for work in Columbia. The company has also secured a contract for furnishing cement for the large dam to be constructed at Granite Falls, N. C.

THE JAMES McNEIL & BRO. CO., manufacturers of riveted steel pipe, Pittsburg, was incorporated Sept. 28, and the officers elected for the ensuing year are: Thos. McNeil, Sr., President; Thos. McNeil, Jr., Vice-President, and Thos. McNeil, III., Treasurer and General Manager. The James McNeil & Bro. Co. will continue the business of the old firm of James McNeil & Bro., assuming all debts and contracts of the said firm.

THE AMERICAN BRIDGE CO., 100 Broadway, New York, has commenced making shipments on account of the steel work for the subway in New York city. Already about 2,000 tons have been shipped, and the material is now being sent in at the rate of about 100 tons per day. The total contract comprises about 80,000 tons of structural material, and is being manufactured at the Keystone plant of the American Bridge Co

Contract Work Should Always be Advertised in a Paper Read by Contractors.

NEARLY EVERY PROMINENT CONTRACTOR and Manufacturer of Contractors' Supplies IN NORTH AMERICA READS THIS PAPER.

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